DIRECTORY OF CSIR SCIENTISTS

VOLUME I

Information Science

1994

HUMAN RESOURCE DEVELOPMENT GROUP
COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH
NEW DELHI

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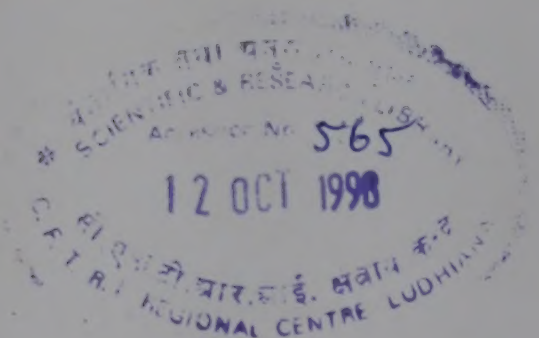
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DIRECTORY OF CSIR SCIENTISTS

Volume 1

INFORMATION SCIENCE

REVISED EDITION

1994

HUMAN RESOURCE DEVELOPMENT GROUP
COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH
NEW DELHI

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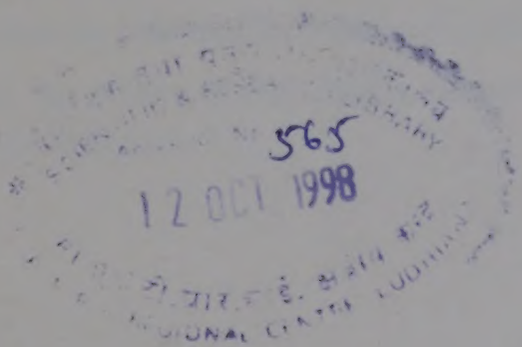

FOREWORD

The Council of Scientific and Industrial Research (CSIR) is an autonomous national agency of the Government of India for conducting scientific and industrial research on important problems in-house. Its 40 research laboratories are of multidisciplinary nature, organised to provide technologies of regional and national interest and to generate new knowledge of basic and applied value.

About 8000 active research scientists and about 11000 supporting staff organised in many teams are working on problems relating to affordable drugs and processed food, better communication and transportation, improved materials, instruments and building technology. Many of the CSIR scientists have done pioneering work in their areas of research and a substantial number of patents, both in India and abroad, have been taken. A large number of the technologies developed in the CSIR laboratories are in use by the industry and a variety of goods based on them are in national and international markets. In addition, the industry, is being provided a variety of services required by them. CSIR's S&T manpower is well trained and therefore their consultancy services are being sought by the industry in good measure. Besides, the scientists and engineers of CSIR also participate in the academic programmes of the universities. It is important that current information about the CSIR scientists is made available at one place so that their expertise may be utilised even better, according to the changing needs of the CSIR and country; with its availability the human resource of CSIR could be planned more systematically for its future research targets.

The first edition of the directory of CSIR Scientists was published in 1986. Its revised version was brought out in 1988. The present edition of the directory incorporates information about the characteristics of CSIR manpower as on 1 December 1994. It is hoped that the information contained in this directory will be variously useful.

I appreciate the efforts of the CSIR's Human Resource Development Group in producing the directory.

S. K. Joshi

New Delhi

(S K JOSHI)
Director General
CSIR

PREFACE

The Council of Scientific & Industrial Research (CSIR) is a multi-disciplinary and multi-dimensional R&D agency with a network of 40 national research laboratories/institutes and 81 regional research centres/survey laboratories/service & maintenance centres/zonal laboratories/ polytechnology transfer centres/ extension centres/field stations/experimental farms/field units, etc.

The total estimated strength of staff is around 25,000 and that of Scientists and Technical Officers is nearly 8,000.

HRD Group of CSIR, New Delhi is maintaining a data bank for Scientists and Technical Officers of CSIR HQ and of the 40 laboratories spread all over India. Information is collected through a proforma which gives their personal data, record of qualifications, employment and training, specialisations, present activities, languages known, countries visited, publications and patents taken, awards and distinctions and professional experience in years. This compilation has been found to be useful whenever the need arose to identify Scientists: as members of Selection Committees, for consideration for special projects, additional training or high level jobs, etc. Each Scientist/ Technical Officer was contacted with a view to obtaining his/her updated biodata. Efforts have been made to incorporate these changes in this revised edition. The Directory comprises six volumes, one each on Information Science, Physical & Earth Sciences, Chemical Sciences, Biological Sciences, Engineering Sciences and Speciality and Name index. The total strength of S&T officers covered in this Directory is 7974. It is hoped that R & D agencies and other organisations could find the Directory a useful source of reference.

A statistical profile of the CSIR Scientists and Technical Officers based on the information contained in the Directory will follow; and it will give data for being utilised as source material for Manpower Planning in the CSIR System.

(N R Rajagopal)
Head, Human Resource Development Group,
CSIR, New Delhi

CSIR HEADQUARTERS, NEW DELHI

1

DR SHRI KRISHNA JOSHI; (B. JUNE 6, 1935),

DIRECTOR GENERAL, COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH AND SECRETARY TO THE GOVERNMENT OF INDIA, DEPARTMENT OF SCIENTIFIC & INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '55; M.SC. PHYSICS - ALLAHABAD '57; D.PHIL. SOLID STATE PHYSICS - ALLAHABAD '62.

SPECIALIZATIONS : SOLID STATE PHYSICS; ATOMIC AND MOLECULAR PHYSICS; RESEARCH MANAGEMENT.

EXPERIENCE : LECTURER, ALLAHABAD UNIVERSITY, 1957-65; VISITING LECTURER, UNIVERSITY OF CALIFORNIA, U.S.A., 1965-67; PROFESSOR, DEPARTMENT OF PHYSICS, ROORKEE UNIVERSITY, ROORKEE, 1967-86; (ALSO ASSOCIATE AND SENIOR ASSOCIATE, INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS, TRIESTE, ITALY, 1971-75 AND 1978-82); DIRECTOR, N.P.L., NEW DELHI, 1986-91; DIRECTOR GENERAL, C.S.I.R. AND SECRETARY TO THE GOVERNMENT OF INDIA, DEPARTMENT OF SCIENTIFIC & INDUSTRIAL RESEARCH, NEW DELHI SINCE MAY 1991.

PRESENT ACTIVITIES : RESEARCH IN SOLID STATE PHYSICS AND MATERIALS SCIENCE; RESEARCH MANAGEMENT.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A., ITALY, U.K., FRANCE, BELGIUM, CHINA, GERMANY, CZECHOSLOVAKIA, HUNGARY, POLAND, JAPAN, MALAYSIA, NEPAL, KOREA.

PUBLICATIONS & PATENTS : RES. PAPERS - 160, RADIO/T.V. TALKS - MANY.

AWARDS & DISTINCTIONS : WATUMULL MEMORIAL PRIZE FOR BEST RESEARCH, WATUMULL MEMORIAL FOUNDATION, U S A, 1965; S S BHATNAGAR PRIZE FOR PHYSICAL SCIENCES, 1972; C S I R SILVER JUBILEE AWARD, 1973; VICE-PRESIDENT, INDIAN PHYSICS ASSOCIATION, 1973-74; PRESIDENT, INDIAN PHYSICS ASSOCIATION, 1989-91; FELLOW, INDIAN NATIONAL SCIENCE ACADEMY,1974; FELLOW, INDIAN ACADEMY OF SCIENCES, 1974; MEGHNAD SAHA AWARD FOR OUTSTANDING RESEARCH IN THEORETICAL SCIENCES, HARI OM ASHRAM TRUST, 1974; K S KRISHNAN MEDAL FOR NATURAL SCIENCE, I N S A, 1987; C V RAMAN CENTENARY MEDAL, 1988; FELLOW, NATIONAL ACADEMY OF SCIENCES, ALLAHABAD, 1989; FICCI AWARD IN PHYSICAL SCIENCES, 1990; PADMA SHRI, 1991; GOYAL PRIZE IN PHYSICAL SCIENCES, GOYAL FOUNDATION, KURUKSHETRA UNIVERSITY, 1993; PRESIDENT, INDIAN NATIONAL SCIENCE ACADEMY, 1993.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 33, TEACHING - 30, RES. MGMT. - 25.

2

DR M P DHIR; (B. MARCH 14, 1935),

DIRECTOR, ENGINEERING CO-ORDINATION, COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : B.SC. (CIVIL ENGINEERING) - PANJAB 56; M.S. CIVIL ENGINEERING- PURDUE UNIVERSITY U.S.A. 61; PH.D. CIVIL ENGINEERING - PANJAB 69.

SPECIALIZATIONS : RIGID & FLEXIBLE PAVEMENTS FOR ROADS AND RUNWAYS; SURFACE CHARACTERISTICS OF PAVEMENTS; RURAL DEVELOPMENT; ESTABLISHMENT OF HIGHWAY LABORATORIES; RESEARCH MANAGEMENT.

EXPERIENCE : ASSISTANT ENGINEER, PUNJAB P.W.D., CHANDIGARH, 1956-57; S.S.O. II, S.S.O. I, SCIENTIST C, SCIENTIST EI, SCIENTIST EII, SCIENTIST F AND SCIENTIST G, C.R.R.I., 1957-84; (ALSO U.N. FELLOW TO U.S.A., AND MEXICO, 1971, CONSULTANT TO ASIAN DEVT. BANK, MANILA, PHILIPPINES, 1977, CONSULTANT UN(ESCAP) 1986, 1988-89 (MONGOLIA & CHINA); DIRECTOR, C.R.R.I., 1983-89; DIRECTOR (ENGINEERING COORDINATION), C.S.I.R. SINCE SEPTEMBER, 1989.

PRESENT ACTIVITIES : R & D AND RESEARCH MANAGEMENT, ACTION PLAN, RURAL DEVELOPMENT, CONSTRUCTION & HOUSING OF CSIR.

LANGUAGES : PUNJABI, HINDI, URDU, ENGLISH.

VISITED : U.S.A, MEXICO, PHILIPPINES, CHINA.

PUBLICATIONS & PATENTS : RES. PAPERS - 50, TECH. REPORTS - 150, PATENTS TAKEN -

AWARDS & DISTINCTIONS : INVENTIONS PROMOTION BOARD COMMENDATION CERTIFICATE FOR UNEVENNESS INDICATOR, 1972; INDIAN ROADS CONGRESS MEDAL AND COMMENDATION CERTIFICATE, 1973, 1979, 1981; FELLOW, INDIAN NATIONAL ACADEMY OF ENGINEERING; FELLOW, INSTITUTION OF ENGINEERS (INDIA), 1979; FELLOW, INDIAN GEOTECHNICAL SOCIETY; NATIONAL LECTURER (UGC).

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC AND APP. RES. - 30, DESIGN, TECH. DEVELOPMENT, PILOT PLANT AND CONSULTANCY - 30, R&D MGMT. - 20, TEACHING TECHNOLOGY TRANSFER AND EXTENSION - 25.

3

DR H R BHOJWANI; (B. FEBRUARY 2, 1940),

SCIENTIST G, TECHNOLOGY UTILISATION DIVISION, SCIENCE SECRETARY, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.E. ELECTRICAL - POONA '62; M.E. POWER SYSTEMS - POONA '65; M.S. ELECTRONICS - UNIVERSITY OF OKLAHOMA, U.S.A. '70; PH.D. ELECTRONICS - UNIVERSITY OF OKLAHOMA, U.S.A. '72; DIPLOMA IN COMPANY LAW - INDIAN LAW INSTITUTE, NEW DELHI '74.

SPECIALIZATIONS : TECHNOLOGY MANAGEMENT & TRANSFER; ELECTRONICS; ELECTRICAL ENGINEERING.

EXPERIENCE : S.T.F., COLLEGE OF ENGINEERING, PUNE, 1962-65; SENIOR LECTURER, DELHI COLLEGE OF ENGINEERING, 1965-68; SENIOR RESEARCH ASSISTANT, UNIV. OF OKLAHOMA, U.S.A., 1968-72; POOL OFFICER (C.S.I.R.), N.I.D.C., NEW DELHI, 1972-73; SCIENTIST C, SCIENTIST EI AND JOINT ADVISER (F), C.S.I.R., 1973-89; (ALSO PROJECT MANAGER, POWER SYSTEMS & PROJECTS LTD., KERALA, 1978-79; AND PRINCIPAL SCIENTIFIC OFFICER, D.S.T., NEW DELHI, 1981-82); SCIENTIST G, C.S.I.R. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : STRATEGIC PLANNING AND MANAGEMENT OF R & D AND TECHNOLOGY.

LANGUAGES : SINDHI, HINDI, PERSIAN, ENGLISH, GERMAN.

VISITED : U.S.A., KOREA, JAPAN, TURKEY, THAILAND, GERMANY, BULGARIA, NIGERIA, TANZANIA, THE NETHERLANDS.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS/DOCUMENTS - 15, TECHNO-ECONOMIC REPORTS - 4.

PROFESSIONAL EXPERIENCE (IN YEARS) : APPLIED RES. - 7, R & D MANAGEMENT - 15, TECNHOLOGY MANAGEMENT AND TRANSFER - 15, TEACHING - 10, TECHNO-ECONOMIC SURVEYS - 1.

4

SHRI S D GARG; (B. MARCH 2, 1939),

SCIENTIST G, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '57; B.E. ELECTRICAL - ROORKEE '62.

SPECIALIZATIONS : R & D PLANNING AND RESOURCE ALLOCATION; MANAGEMENT AND COORDINATION OF MULTI-AGENCY PROGRAMMES ON COAL; ELECTROPNEUMATIC AND ELECTROMECHANICAL CONTROL SYSTEMS.

EXPERIENCE : DESIGN ASSISTANT (B) AND DESIGN ASSISTANT (A), R.D.S.O., LUCKNOW, 1962-65; SCIENTIST B, SCIENTIST C AND SCIENTIST-IN-CHARGE, MERADO (CMERI) LUDHIANA, 1965-77; (ALSO UNESCO FELLOW FOR TRAINING IN MACHINE TOOL CONTROL SYSTEMS AND AUTOMATIC MERCHANDISING MACHINES, U.S.A., 1970); SCIENTIST EI, SCIENTIST EII AND JOINT ADVISER (F), C.S.I.R. 1977-89; SCIENTIST G, C.S.I.R. SINCE SEPTEMBER, 1989.

PRESENT ACTIVITIES : R & D PLANNING AND RESOURCE ALLOCATION FOR C.S.I.R. LABORATORIES; MANAGEMENT AND CO-ORDINATION OF MULTI-AGENCY PROGRAMMES ON COAL; METALS AND ENGINEERING SCIENCES; CHEMICAL SCIENCES & CHEMICAL ENGINEERING, 35 POINT ACTION PLAN.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A., U.K., FRANCE, SWITZERLAND, JAPAN.

PUBLICATIONS & PATENTS : TECH. REPORTS - 9, ARTICLES - 8, PATENT TAKEN - 1, PATENTS FILED - 2, PROCESSES DEVELOPED - 5, PROCESSES UNDER UTILISATION - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RES. - 15, DESIGN - 15, TECHNICAL DEVELOPMENT- 15, CONSULTANCY - 8, R & D MGMT- 19, TESTING - 5, QUALITY CONTROL- 5, TECHNO-ECONOMIC SURVEYS - 3, PLANNING - 20, TECHNOLOGY TRANSFER- 5, ADMN. - 7, COMPUTER PROCESSING - 1, EXTENSION - 12

5

DR H K SRIVASTAVA; (B. AUGUST 1, 1944),

SCIENTIST G, COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : B.SC. (AG.) - GORAKHPUR '62; M.SC. AGRICULTURAL BOTANY - AGRA '64; PH.D. PLANT GENETICS - TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY, U.S.A. '69; POST-DOCT. GENETICS & BIOCHEMISTRY - EDINBURGH, U.K.'70.

SPECIALIZATIONS : BIOTECHNOLOGY; PLANT MOLECULAR BIOLOGY; PLANT BREEDING & GENETICS; AGRICULTURAL SCIENCES.

EXPERIENCE : LECTURER, UDAI PRATAP POST-GRADUATE COLLEGE, VARANASI, 1964-65; SENIOR LECTURER, CSA UNIVERSITY OF AGRICULTURE & TECHNOLOGY, KANPUR, 1965-66; GRADUATE RESEARCH ASSISTANT, WEST VIRGINIA UNIVERSITY, U.S.A., 1966-67; GRADUATE RESEARCH ASSISTANT, TEXAS A&M UNIVERSITY, U.S.A., 1967-69; SENIOR RESEARCH ASSOCIATE, EDINBURGH UNIVERSITY, U.K., 1970-71; ASSOCIATE PROFESSOR, HARYANA AGRICULTURE UNIVERSITY, HISSAR, 1971-72; PROFESSOR, HEAD & DEAN, MEERUT UNIVERSITY, MEERUT, 1972-75; PROFESSOR & HEAD, UNIVERSITY OF VALLE, CALI, COLUMBIA, SOUTH AMERICA, 1976-80; ASSOCIATE DIRECTOR, WORLD BANK/NATIONAL AGRICULTURAL RESEARCH PROJECT, GUJARAT AGRICULUTRAL UNIVERSITY, ANAND CAMPUS, 1981-83; PROFESSOR & HEAD, GUJARAT AGRICULUTRAL UNIVERSITY, NAVSARI CAMPUS, 1983-84; SCIENTIST G, C.I.M.A.P., 1984-1993; (ALSO PROJECT COORDINATOR, ON DEPUTATION, D O B, MINISTRY OF SCIENCE AND TECHNOLOGY, NEW DELHI, 1986-93); (ALSO CONSULTANT, FAO, UNIDO, 1986-92); SCIENTIST G, C.S.I.R. SINCE JULY, 1993.

PRESENT ACTIVITIES : R&D MANAGEMENT IN BIOTECHNOLOGY AND GENETIC ENGINEERING; CONTACT RTD&DP AND ADDITIONAL RESOURCE GENERATION FOR BIOLOGY AND BIOTECHNOLOGY AREAS.

LANGUAGES : HINDI, ENGLISH, SPANISH, FRENCH.

VISITED : U.S.A., U.K., U.S.S.R., AUSTRIA, CHINA, SUDAN, SOUTH AMERICA, NEPAL, NETHERLANDS, LUXEMBOURGH, ITALY, THAILAND, GERMANY, ETHIOPIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 100, TECH. REPORTS - 30, SCIENTIFIC BOOKS - 15, ARTICLES - 15.

AWARDS & DISTINCTIONS : NATIONAL MERIT SCHOLARSHIP, GOVT OF INDIA, 1962; OVERSEAS FELLOWSHIP, BRITISH MINISTRY OF OVERSEAS DEVELOPMENT, 1962; FELLOW, NATIONAL ACADEMY OF SCIENCES, ALLAHABAD; FELLOW, INDIAN SOCIETY OF GENETICS, 1986.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 30, APP. RES. - 30, TECHNO ECO SURVEY - 6, PLANNING - 7, TECH. TRANSFER - 10, CONSULTANCY - 1, TEACHING - 15, SURVEY OF NAT. RES. - 7, TECH. DEV. - 7, PILOT PLANT - 5, EXTENSION - 15, R&D MANAGEMENT - 12.

6

SHRI N R SUBBARAM; (B. APRIL 13, 1937),

SCIENTIST G, PATENTS UNIT, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - MADRAS '58; M.SC. ORGANIC CHEMISTRY - BOMBAY '60; L L B. - CALCUTTA '77.

SPECIALIZATIONS : PATENT LAW AND PROCEDURE.

EXPERIENCE : EXAMINER OF PATENTS AND DESIGN, PATENT OFFICE, CALCUTTA, 1962-77; PATENTS OFFICER, INDIAN OIL CORPORATION (R & D CENTRE), FARIDABAD, 1977-78; ASSISTANT CONTROLLER(PATENTS & DESIGN), PATENT OFFICE BRANCH, NEW DELHI, 1978-80; (ALSO TRAINING IN INDUSTRIAL PROPERTY, JAPAN, 1980); DEPUTY CONTROLLER(PATENTS & DESIGN), OFFICE OF THE CONTROLLER GENERAL, PATENTS DESIGN AND TRADEMARKS, BOMBAY, 1980-84; SCIENTIST F, PATENTS UNIT, C.S.I.R., 1984-89; SCIENTIST G, PATENTS UNIT, C.S.I.R. SINCE JULY, 1989.

PRESENT ACTIVITIES : MANAGEMENT OF C.S.I.R. PATENTS IN INDIA AND ABROAD.

LANGUAGES : TAMIL, HINDI, MALAYALAM, ENGLISH.

VISITED : JAPAN, THAILAND, W. GERMANY, SWITZERLAND, AUSTRIA, BULGARIA, U.S.A..

PUBLICATIONS & PATENTS : ARTICLES (ON PATENTS) - 12, DECISIONS UNDER PROVISIONS OF THE PATENTS ACT - 24; PROCEDURES- 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : PATENT LAW AND PROCEDURE - 28

7

SHRI A K BHATIA; (B. OCTOBER 4, 1942),

SCIENTIST F, COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : B.SC - AGRA '61; POSTGRADUATE ASSOCIATE CFTRI FOOD TECHNOLOGY - CFTRI, MYSORE '64.

SPECIALIZATIONS : FOOD TECHNOLOGY; RURAL DEVELOPMENT.

EXPERIENCE : CHEMIST, M/S MIDLAND FRUIT PRODUCTS, MATHURA, 1964; ASSTT. FRUIT TECHNOLOGIST, DEPARTMENT OF AGRICULTURE, GOVERNMENT OF PUNJAB, 1965; SENIOR CHEMIST, M/S DYER MEAKIN BREWERIES LTD., MOHANNAGAR, 1965-66; S.S.A., CFTRI, 1966-70; SCIENTIST B, SCIENTIST C, SCIENTIST EI, SCIENTIST EII AND SCIENTIST F, RRL JAMMU, 1970-93; SCIENTIST F, C.S.I.R. SINCE JANUARY, 1993.

PRESENT ACTIVITIES : RURAL DEVELOPMENT.

LANGUAGES : HINDI, PUNJABI, URDU, ENGLISH.

VISITED : BULGARIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 78, TECH. REPORTS - 18, SCIENTIFIC BOOKS -1, ARTICLES - 1, PROCESSES DEVELOPED - 22, PROCESS UNDER UTILISATION - 15.

AWARDS & DISTINCTIONS : YEZDI AWARD, ALL INDIA FOOD PRESERVERS ASSOCIATION, 1979

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 19, CONSULTANCY - 1, PRODUCTION - 1, SURVEY OF NAT. RES. - 2, PLANNING - 1, TECH. TRANSFER - 2, EXTENSION - 1.

8

DR S C MAJUMDAR; (B. JANUARY 19, 1937),

SCIENTIST F, INRIST CENTRE, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC(HONS) - CALCUTTA '57; M.SC.(TECH) RADIO PHYSICS AND ELECTRONICS - CALCUTTA '60; PH.D. RADIO PHYSICS AND ELECTRONICS - CALCUTTA '75.

SPECIALIZATIONS : TROPOSPHERIC PHYSICS; RADIO COMMUNICATION SYSTEMS; RADARS AND NAVIGATIONAL AIDS; SATELLITE COMMUNICATION AND NAVIGATION SYSTEMS; PROJECTS IN SCIENCE & TECHNOLOGY AND HUMAN RESOURCE DEVELOPMENT.

EXPERIENCE : SCIENTIST, N.P.L., 1976; DEPUTY DIRECTOR, DIRECTOR AND DEPUTY DIRECTOR GENERAL, DEPARTMENT OF CIVIL AVIATION, 1976-90; (ALSO SERVED THE UNITED NATIONS AS AN ELECTRONICS EXPERT DURING 1980-82); SCIENTIST F, INCHARGE OF TOKTEN/INRIST PROGRAMME, C.S.I.R. SINCE MARCH, 1990.

PRESENT ACTIVITIES : SCIENCE & TECHNOLOGY PROJECTS; HUMAN RESOURCE DEVELOPMENT PROJECTS; RESEARCH IN RADIO & ATMOSPHERIC SCIENCES; GLOBAL ENVIRONMENTAL PROGRAMMES.

LANUGAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.S.A., CANADA, U.K., W.GERMANY, SWITZERLAND, U.S.S.R., EAST AFRICA, CAMBODIA.

PUBLICATIONS & PATENTS : RES. PAPERS AND RES. REPORTS - 40.

AWARDS & DISTINCTIONS : BEST PAPER AWARD, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS, U K, 1966; BEST PAPER AWARD, INSTITUTION OF ELECTRONICS & RADIO ENGINEERS, U K, 1974; MEMBER, NATIONAL RADAR COUNCIL; MEMBER, 'FANS' COMMITTEE ON SATELLITE NAVIGATION, COMMUNICATION AND SURVEILLANCE; FELLOW, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS (INDIA).

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 16, APPLIED RESEARCH - 24, ELECTRONIC PROJECTS FOR AVIATION - 25, U.N. EXPERT - 2.

9

DR N R RAJAGOPAL; (B. DECEMBER 12, 1936),

SCIENTIST F AND HEAD, HUMAN RESOURCE DEVELOPMENT GROUP, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - MADRAS '55; M.A. ECONOMICS - HIMACHAL PRADESH '76; PH.D. R & D MANAGEMENT - B.I.T.S., PILANI '93.

SPECIALIZATIONS : R & D PLANNING; R & D MANAGEMENT; EDITING; HUMAN RESOURCE DEVELOPMENT.

EXPERIENCE : ADMINISTRATION, C.S.I.R., 1959-63; S.S.A., SCIENTIST A, SCIENTIST B, SCIENTSIT C, SCIENTIST EI. SCIENTIST EII AND SCIENTIST F, C.S.I.R., 1963-93; SCIENTIST F AND HEAD, H.R.D.G., C.S.I.R. SINCE SEPTEMBER, 1993.

PRESENT ACTIVITIES : PLANNING, EDITING, R & D MANAGEMENT; HUMAN RESOURCE DEVELOPMENT.

LANGUAGES : TAMIL, HINDI, PUNJABI, BENGALI, ENGLISH.

VISITED : ROMANIA, THAILAND, U.K., U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 20, SCIENTIFIC BOOKS - 1, ARTICLES - 20.

PROFESSIONAL EXPERIENCE(IN YEARS) : R&D MGMT - 20, PLANNING - 30, EDITING - 15.

10

DR OM PRAKASH AGARWAL; (B. MAY 6, 1945),

SCIENTIST EII, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '62; M.SC. CHEMISTRY - AGRA '64; M.SC. PHARMACOLOGY - A.I.I.M.S., NEW DELHI 71; PH.D. PHARMACOLOGY - A.I.I.M.S., NEW DELHI '83.

SPECIALIZATIONS : CARDIOVASCULAR PHARMACOLOGY; CARDIOVASCULAR INFLAMMATION; VENOMS AND TOXINS; PLANNING OF BIOLOGICAL CENTRES.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, I.I.C.B., CALCUTTA 1967-88; SCIENTIST EII, C.S.I.R. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : EVALUATION AND MONITORING OF PROJECTS ON BIOLOGICAL SCIENCE; CO-ORDINATOR DRUGS & VACCINE COMMITTEE; HEAD CO-ORDINATOR T.A.B., BIOTECHNOLOGY CELL; HEAD CO-ORDINATOR OF RESEARCH COMMITTEE OF I.I.C.B., C.D.R.I., I.M.T., B.C.H., C.F.B.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 43.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 20, APP. RES. - 20, TEACHING - 2, R & D MGMT - 1.

11

SHRI P N BHATTACHARYA: (B. NOVEMBER 8, 1935),

SCIENTIST EII, INRIST CENTRE, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - B.H.U. '55; M.SC. MATHEMATICS - B.H.U. '57.

SPECIALIZATIONS : SCIENTIFIC MANAGEMENT; INFORMATION SCIENCE, TECHNOLOGY PROGRAMME AND INTERNATIONAL COOPERATION.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.R., 1958-89; SCIENTIST EII, C.S.I.R. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : PLANNING MANAGEMENT AND OPERATION OF UNDP SUPPORTED PROJECT KNOWN AS TRANSFER OF KNOWLEDGE THROUGH EXPATRIATE NATIONALS (TOKTEN).

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.S.A., PHILIPPINES, TURKEY.

PUBLICATIONS & PATENTS : TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : MANPOWER STUDIES & UTILISATION - 35.

12

SHRI S K CHAKLADAR; (B. AUGUST 1, 1946),

SCIENTIST EII, MISSION CELL, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.CH.E - JADAVPUR '68; M.TECH. CHEMICAL ENGINEERING - I.I.T, KHARAGPUR '71.

SPECIALIZATIONS : PROCESS DESIGN; REFINERY OPTIMIZATION; TECHNO-ECONOMIC EVALUATION; COMMISSIONING OF PLANTS; WATER RESOURCE MANAGEMENT.

EXPERIENCE : SCIENTIST B, ENGINEER (C) AND SCIENTIST EI, I.I.P., 1971-88; (ALSO HIGHER TRAINING IN PROCESS DESIGN OF PRETREATMENT & CATALYTIC RFORMING UNIT, FRANCE, 1977-78); SCIENTIST EII, C.S.I.R. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : TECHNICAL CONSULTANCY; MISSION PROGRAMMES; ACTION PLAN PROGRAMMES.

LANGUAGES : BENGALI, HINDI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : TECH REPORTS - 35, ARTCLES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 17, CONULTANCY - 15, COMPUTER PROCESSING - 9.

13

MRS SUBHRA CHAKRAVARTY; (B. DECEMBER 9, 1943),

SCIENTIST EII, TECHNOLOGY UTILISATION DIVISION, C.S.I.R., NEW DELHI

QUALIFICATIONS : B.CH.E. CHEMICAL ENGINEERING - JADAVPUR '66; M.CH.E. CHEMICAL ENGINEERING - JADAVPUR '70; DIPLOMA IN GERMAN, RUSSIAN AND HINDI.

SPECIALIZATIONS : PROJECT PLANNING & CO-ORDINATION; PROJECT EVALUATION & MANAGEMENT; PROCESS DESIGN; MANAGEMENT OF INFORMATION SYSTEM.

EXPERIENCE : S.R.F., JADAVPUR UNIVERSITY, 1966-70; LECTURER, BARODA UNIVERSITY, 1971-72; SCIENTIST B, I.I.P., 1972-74; SCIENTIST C AND DEPUTY ADVISER (EI), C.S.I.R., 1974-87; (ALSO TRAINING IN ENERGY CONSERVATION U.S.A., 1975; PROJECT OFFICER, ON DEPUTATION, DEPARTMENT OF CHEMICALS, 1977-80; TRAINING IN WATER POLLUTION CONTROL, U.S.A., 1979; PRINICIPAL SCIENTIFIC OFFICER, ON DEPUTATION, DEPARTMENT OF SCIENCE AND TECHNOLOGY, 1982-84; TRAINING IN TECHNOLOGY TRANSFER, W. GERMANY, 1985); SCIENTIST EII, C.S.I.R. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : TECHNOLOGY MISSION ON DRINKING WATER, OTHER MISSION MODE ACTION PLAN PROJECTS.

LANGUAGES : BENGALI, HINDI, ENGLISH, GERMAN, RUSSIAN.

VISITED : U.S.A., W. GERMANY, ITALY, FRANCE, THAILAND, SWITZERLAND, CUBA.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 20, ARTICLES - 40, BOOK - 1

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, DESIGN - 2, TEACHING - 5, PLANNING - 4, TECHNOLOGY TRANSFER - 12.

14

DR ASIM KUMAR GUHA; (B. JANUARY 1, 1946),

SCIENTIST EII, TECHNOLOGY UTILISATION DIVISION, C.S.I.R., NEW DELHI

QUALIFICATIONS : B.E. MECHANICAL - CALCUTTA '67; PROFESSIONAL TRAINING IN ARMAMENT TECHNOLOGY - INSTITUTE OF ARMAMENT TECHNOLOGY, PUNE '68; M.TECH INDUSTRIAL ENGINEERING - I.I.T., DELHI '82; PH.D. INDUSTRIAL ENGINEERING - I.I.T., DELHI '88.

SPECIALIZATIONS : TECHNOLOGY TRANSFER; R & D AND TECHNOLOGY MANAGEMENT; INDUSTRIAL ENGINEERING.

EXPERIENCE : J.S.O. AND S.S.O. II, DIRECTORATE GENERAL OF INSPECTION, GOVT. OF INDIA, 1969-74; SCIENTIST C AND DEPUTY ADVISER (EI), C.S.I.R., 1974-87; (ALSO TRAINING IN INDUSTRIAL DEVELOPMENT AND CHOICE OF TECHNOLOGY, UNDER COLOMBO PLAN, UNIVERSITY OF STRATHCLYDE, GLASGOW, U.K., 1981); SCIENTIST EII, C.S.I.R. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : TECHNOLOGY TRANSFER, TECHNOLOGY AND R & D MANAGEMENT.

LANGUAGES : BENGALI, HINDI, ENGLISH, SPANISH.

VISITED : U.K, SOUTH KOREA, GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : INSPECTION & QUALITY CONTROL - 6, TECHNOLOGY TRANSFER - 19, TECHNOLLGY AND R & D MGMT - 19.

15

DR JAGDISH NARAIN KANSAL; (B. JULY 30, 1936),

SCIENTIST EII, EXHIBITION/MUSEUM UNIT, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '56; M.A. ECONOMICS - AGRA '59; CERTIFICATE IN SOCIAL SCIENCE RESEARCH METHODOLOGY - DELHI '64; DIPLOMA IN MASS COMMUNICATION - BHARTIYA VIDYA BHAWAN, BOMBAY '71; PH.D. PRODUCTIVITY IN INDIAN GLASS - MEERUT '72.

SPECIALIZATIONS : PRESS INFORMATION; PUBLICITY AND PUBLIC RELATIONS; EXHIBITION ORGANISATION; INTERNATIONAL COLLABORATION.

EXPERIENCE : LECTURER, N.A.S. COLLEGE, MEERUT, 1959-60; J.R.F. AND S.T.A., C.G.C.R.I., CALCUTTA, 1960-67; S.T.A., PUBLIC RELATIONS OFFICER (B), PUBLIC RELATIONS OFFICER (C) AND PUBLIC RELATIONS OFFICER (EI), C.S.I.R., 1967-89; (ALSO MANAGER, MOSCOW EXHIBITION; SERVED IN D.S.T., NEW DELHI AS PROJECT MANAGER/DIRECTOR-EXHIBITION FOR FESTIVAL OF INDIA IN U.S.S.R., 1989); SCIENTIST EII, C.S.I.R. SINCE SEPTEMBER, 1989.

PRESENT ACTIVITIES : SETTING UP OF CSIR MUSEUM/PERMANENT EXHIBITION AND QUICK ACCESS INFORMATION SYSTEM OF CSIR FOR MASS MEDIA.

LANGUAGES : HINDI, ENGLISH.

VISITED : BULGARIA, ITALY, YUGOSLAVIA, U.S.S.R., IRAN, GERMANY, U.K, U.S.A., BRITISH GUIANA, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 6, ARTICLES - 50, OTHERS(BROCHURES) - 10

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, ADMN - 22, EDITING - 22, SCIENCE INFORMATION, PUBLIC RELATIONS, PUBLICITY AND EXHIBITIONS AND INDIAN SCIENCE FESTIVALS - 35.

16

SHRI V B LAL; (B. MARCH 1, 1939),

SCIENTIST EII, TECHNOLOGY UTILISATION DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '57; B.E. CIVIL - ROORKEE '60; P.G. DIPLOMA IN HYDROLOGY - UNIVERSITY OF PADOVA, ITALY '68.

SPECIALIZATIONS : HYDROLOGY AND WATER RESOURCE MANAGEMENT; S&T POLICY; TECHNOLOGY MANAGEMENT; PRIORITY PLANNING IN R&D; MATHEMATICAL MODELLING OF SOCIAL PROCESSES.

EXPERIENCE : ASSISTANT ENGINEER, IRRIGATION DEPARTMENT, U.P., 1961-65; ASSISTANT PROFESSOR, B.I.T., RANCHI, 1965-70; SCIENTIST C AND SCIENTIST EI, C.S.I.R., 1970-83; SCIENTIST EI AND SCIENTIST EII, N.I.S.T.A.D.S. 1983-87; SCIENTIST EII, C.S.I.R. SINCE JULY, 1987.

PRESENT ACTIVITIES : TECHNOLOGY UTILISATION; REORIENTATION STRATEGIES AND R&D PRIORITY PLANNING METHODOLOGY DEVELOPMENT.

LANGUAGES : HINDI, SANSKRIT, ENGLISH, ITALIAN.

VISITED : ITALY, FRANCE, U.S.S.R., HUNGARY, AUSTRALIA, NEW ZEALAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 18, TECH. REPORTS - 7, ARTICLES - 15, BOOK - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 7, APPLIED RESEARCH - 15, CONSTRUCTION - 3, OPERATION - 3, MAINTENANCE - 3, TEACHING - 5, SURVEY OF NATURAL RESOURCES - 5, PLANNING - 20, SCIENCE, S & T AND INDUSTRIAL POLICY - 10.

17

DR SUKUMAR MALLICK; (B. SEPTEMBER 5, 1943),

SCIENTIST EII, EXTRA MURAL RESEARCH DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : M.SC. APPLIED GEOLOGY - I.I.T., KHARAGPUR '66; PH.D. APPLIED GEOLOGY - I.I.T., KHARAGPUR '72; CERTIFICATE IN COBOL PROGRAMMING - C.M.C, NEW DELHI '85; 3 MONTHS CERTIFICATE COURSE ON S & T INFORMATION - CITY UNIVERSITY LONDON, U.K., '87; CERTIFICATE IN EDP MANAGEMENT - C.M.C., NEW DELHI '86.

SPECIALIZATIONS : R&D MANAGEMENT, PLANNING AND MANAGEMENT OF EXTRAMURAL RESEARCH SCHEMES; GEOHYDROLOGY AND MATHEMATICAL MODELLING.

EXPERIENCE : P.D.F., I.I.T., KHARAGPUR, 1972-73; GEOLOGIST, STATE WATER BOARD, WEST BENGAL, 1973-74; JUNIOR HYDROLOGIST, CENTRAL GROUND WATER BOARD, GOVERNMENT OF INDIA, 1974-77; SCIENTIST C AND SCIENTIST EI, C.S.I.R., 1977-83; SCIENTIST EII, C.S.I.R. SINCE JUNE, 1988; (ALSO VISITED U.S.A. FROM 1-6-992 TO 30-6-92 UNDER NSF SPONSORED PROGRAMME FOR EXCHANGE OF INFORMATION, PRIMARILY ON INDUSTRY-CSIR-UNIVERSITY INTERACTIONS THROUGH EMR SCHEME PROGRAMME).

PRESENT ACTIVITIES : PLANNING, MANAGEMENT, COORDIATION AND OPERATION OF EXTRAMURAL RESEARCH SCHEMES; COMPUTERISATION AND DEVELOPMENT OF CURRENT EXTRA MURAL RESEARCH INFORMATION SYSTEM OF CSIR; CO-ORDINATOR FOR CSIR CENTRE FOR MATHEMATICAL MODELLING AND COMPUTER SIMULATION (C-MMACS), BANGALORE.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : THE NETHERLANDS, GERMANY, SPAIN, CZECHOSLOVAKIA, UK, USA.

PUBLICATIONS & PATENTS : RES. PAPERS- 16, TECH. REPORTS - 6, ARTICLES - 1, BOOK REVIEWS - 3, PATENT TAKEN - 1.

AWARDS & DISTINCTIONS : MEMBER, INTERNATIONAL COMMISSION ON GROUND WATER PROTECTION, INTERNATIONAL ASSOCIATION OF HYDROGEOLOGISTS, ICSU, 1980; SECRETARY, SOCIETY FOR INFORMATION SCIENCE, NEW DELHI, 1993-94; AWARDED FELLOWSHIP OF THE SOCIETY FOR INFORMATION SCIENCE, 1993; MEMBER, NISSAT EXECUTIVE COMMITTEE OF DSIR, 1993.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MANAGEMENT - 16, SURVEY OF NATURAL RESOURCES - 5, APPLIED RESEARCH - 6.

18

SHRI N C MURTHY; (B. SEPTEMBER 23, 1940),

SCIENTIST EII, CSIR POLYTECHNOLOGY TRANSFER CENTRE, BANGALORE.

QUALIFICATIONS : B.TECH. CHEMICAL ENGINEERING - OSMANIA '63; M.TECH. FUELS & FURNACES - I.I.T., BOMBAY '65.

SPECIALIZATIONS : CHEMICAL ENGINEERING; TECHNOLOGY TRANSFER.

EXPERIENCE : LECTURER AND READER, M.S. UNIVERSITY, BARODA, 1966-75; PROJECT MANAGER, M/S M.M. SURI & ASSOCIATES(P) LTD., HYDERABAD, 1975-78; SENIOR CONSULTANT, VARAPRASAD & ASSOCIATES, HYDERABAD, 1978-79; PROJECT OFFICER (EI), C.S.I.R. POLYTECHNOLOGY TRANSFER CENTRE, BANGALORE AND LUCKNOW, 1979-88; SCIENTIST EII, C.S.I.R. POLYTECHNOLOGY TRANSFER CENTRE, BANGALORE SINCE APRIL, 1988.

PRESENT ACTIVITIES : CONSULTANCY; TECHNOLOGY TRANSFER.

LANGUAGES : TELUGU, HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH. REPORTS - 12, ARTICLES - 32.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 2, DESIGN - 4, CONSULTANCY - 6, R & D MGMT. - 3, OPERATION - 2, TEACHNING - 10, PLANNING - 10, TECHNOLOGY TRANSFER - 11.

19

SHRI SIDDAPPA PATIL; (B. DECEMBER 7, 1938),

SCIENTIST EII, TRAINING CELL, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.TECH CHEMICAL ENGINEERING - OSMANIA '62.

SPECIALIZATIONS : PROCESS DESIGN; TECHNO-ECONOMIC EVALUATION; PLANT START-UPS; COMPUTER PROGRAMMING.

EXPERIENCE : S.S.A., SCIENTIST B, ENGINEER (C), ENGINEER (EI), AND ENGINEER (EII), I.I.P., 1964-87; (ALSO ADVANCED TRAINING IN PROCESS DESIGN OF P.G.H. UNIT AND REVAMPING OF P.G.H. - SECOND STAGE, FRANCE, 1973 AND 1981); SCIENTIST EII, C.S.I.R. SINCE FEBRUARY, 1987; (ALSO ADDITIONAL DIRECTOR ON DEPUTATION, CENTRE FOR HIGH TECHNOLOGY, MINISTRY OF PETROLEUM, 1988-91).

PRESENT ACTIVITIES : TECHNOLOGY DEVELOPMENT, QUALITY CONTROL, MONITORING & DIRECTING DEVELOPMENT OF PROCESSES IN LUBES AND FUELS MANUFACTURE IN OIL REFINERIES.

LANGUAGES : KANNADA, HINDI, MARATHI, ENGLISH.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : TECH REPORTS - 50, ARTICLES - 10, PROCESS DEV - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 16, TECH DEV - 8, PILOT PLANT - 4, CONSULTANCY - 8, OPERATION - 2, TECHNO-ECONOMIC SURVEYS - 5, COMPUTER PROCESSING - 6, HRD - 2.

20

DR B K PAUL; (B. OCTOBER 1, 1935),

SCIENTIST EII, CSIR POLYTECHNOLOGY TRANSFER CENTRE, SHILLONG.

QUALIFICATIONS : M.SC. CHEMISTRY - GAUHATI '63; PH.D. MEDICINAL CHEMISTRY - CALCUTTA '69.

SPECIALIZATIONS : DRUGS AND PHARMACEUTICALS; PESTICIDES; ORGANIC CHEMICALS; INFORMATION DISSEMINATION; TECHNOLOGY TRANSFER; SYNTHETIC ORGANIC CHEMISTRY.

EXPERIENCE : FORESTER, FOREST DEPARTMENT, GOVERNMENT OF ASSAM, 1957; ASSISTANT TEACHER, R.K. VIDYAPEETH, CACHAR, ASSAM, 1959-60; LECTURER, G.C. COLLEGE, SILCHAR, ASSAM, 1963-64; J.R.F., S.R.A. AND SCIENTIST B, (CSIR), B.I.R.I., CALCUTTA AND CALCUTTA UNIVERSITY, 1964-70; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, R.R.L., JORHAT, 1970-81; PROJECT OFFICER/SCIENTIST EI, C.S.I.R. POLYTECHNOLOGY TRANSFER CENTRE, SHILLONG 1981-87; (ALSO DIRECTOR, NORTH-EASTERN S & T COUNCIL, SHILLONG, 1985-1987); SCIENTIST EII, C.S.I.R. POLYTECHNOLOGY TRANSER CENTRE, SHILLONG SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : TECHNOLOGY TRANSFER; INFORMATION DISSEMINATION; TECHNOLOGY MISSION ON DRINKING WATER IN VILLAGES.

LANGUAGES : BENGALI, ASSAMESE, HINDI, SANSKRIT, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 11, ARTICLES - 14, PATENTS TAKEN - 2, PATENTS FILED - 2, PROCESSES DEVELOPED - 9, PROCESSES UNDER UTILISATION - 4.

AWARDS & DISTINCTIONS : FELLOW, INSTITUTION OF CHEMISTS (INDIA), 1975; FELLOW, INDIAN CHEMICAL SOCIETY; MEMBER, STATE S & T COUNCILS FOR MEGHALAYA, MANIPUR, MIZORAM AND TRIPURA; MEMBER, R&D COMMITTEE FOR NORTH-EAST REGION; MEMBER, NORTH-EAST REGIONAL S & T COMMITTEE.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, APP. RES. - 11, PILOT PLANT - 5, R & D MGMT - 9, TEACHING - 2, TECHNO-ECONOMIC SURVEYS- 6, PLANNING - 6, TECHNOLOGY TRANSFER - 6, ADMN - 6, DOCUMENTATION - 6.

21

SHRI JAI PRAKASH; (B. APRIL 18, 1947),

SCIENTIST EII, TRAINING CELL, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.TECH. CHEMICAL ENGINEERING - I.I.T., DELHI '68; M.TECH. CHEMICAL ENGINEERING - I.I.T., DELHI '71.

SPECIALIZATIONS : PROCESS DESIGN; TECHNO-ECONOMIC EVALUATION; OPTIMISATION TECHNIQUES; COMPUTER PROGRAMMING.

EXPERIENCE : SCIENTIST B, ENGINEER (C) AND ENGINEER (EI), I.I.P., 1972-88; SCIENTIST EI, C.S.I.R., 1988-89; SCIENTIST EII, C.S.I.R. SINCE JANUARY, 1989.

PRESENT ACTIVITIES : TRAINING & CONSULTANCY.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH . REPORTS - 20, ARTICLES - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 16, TECHNICAL DEV - 16, SCALE UP - 16, REFINERY OPTIMISATION - 10, TRAINING - 2.

22

SHRI N D SETH; (B. AUGUST 9, 1938),

SCIENTIST EII, COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '58; M.SC. CHEMISTRY - AGRA '60; CERTIFICATE IN PROJECT MANAGEMENT - NITIE, BOMBAY.

SPECIALIZATIONS : TECHNOLOGY TRANSFER; EDITING; R & D MANAGEMENT; PROJECT MANAGEMENT & CONTROL.

EXPERIENCE : LECTURER, D.A.V. MULTI- PURPOSE HIGHER SECONDARY INSTITUTE, AMRITSAR, 1960; CHEMIST, F.C.I., NANGAL UNIT, 1960-63; S.S.A., SCIENTIST A AND SCIENTIST B, N.C.L., PUNE, 1963-73; S.S.O. (I)., D.S.T., NEW DELHI, 1973-77; PROJECT OFFICER (EI) AND SCIENTIST EII, CSIR POLYTECHNOLOGY TRANSFER CENTRE, PATNA, 1977-86; SCIENTIST EII, C.S.I.R. SINCE APRIL, 1986.

PRESENT ACTIVITIES : TECHNOLOGY TRANSFER; EXTENSION; CONSULTANCY

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : U.K.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEVELOPMENT - 6, CONSULTANCY - 6, R & D MANAGEMENT - 10, QUALITY CONTROL - 3, TECHNOLOGY TRANSFER - 20, EDITING - 10, EXTENSION - 8; TECHNOLOGY MISSION, PLANNING - 3.

23

DR M S TYAGI; (B. JULY 25, 1939),

SCIENTIST EII, INRIST CENTRE, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC - AGRA ' 59; M.A. MATHEMATICS - DELHI ' 62; M.SC. OPERATIONAL RESEARCH - DELHI ' 65; PH.D. MANAGEMENT SCIENCE - DELHI '81.

SPECIALIZATIONS : MANAGEMENT SCIENCE; DEVELOPMENT OF OPERATIONAL RESEARCH; STATISTICAL SIMULATION AND MATHEMATICAL MODELLING; COMPUTER SOFTWARE DEVELOPMENT FOR CHEMICAL ENGINEERING; COMPUTER MANAGEMENT.

EXPERIENCE : S.S.A., SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, I.I.P., DELHI, 1965-88; (ALSO HIGHER TRAINING IN OPERATIONAL RESEARCH TECHNIQUES FOR REFINING SCHEDULING, TRANSPORTATION ETC. AND IN COMPUTER SOFTWARE DEVELOPMENT, U.K. AND FRANCE, 1971; DEPUTY MANAGER (O.R.) I.O.C., BOMBAY 1977; TRAINING IN MANAGEMENT SCIENCE, U.S.A., 1981); SCIENTIST EII, C.S.I.R. SINCE MAY 1988.

PRESENT ACTIVITIES : MANAGEMENT SCIENCE; APPLICATION OF O.R. TECHNIQUES; COMPUTER PROGRAMMING & DATA BASE MANAGEMENT.

LANGUAGES : HINDI, URDU, ENGLISH.

VISITED : U.K., FRANCE, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPER - 12, TECH REPORTS - 40.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 25, APP. RES. - 25, DESIGN - 5, TECH DEV. - 25, CONSULTANCY - 25, INDUSTRIAL MGMT - 18, TECHNO- ECONIOMIC SURVEYS - 12, PLANNING - 22, COMPUTER PROCESSING - 25.

24

DR MAHESH CHANDRA UPRETI; (B. JULY 14, 1935)),

SCIENTIST EII, CSIR POLYTECHNOLOGY TRANSFER CENTRE, LUCKNOW.

QUALIFICATIONS : B.SC. - ALLAHABAD '55; M.SC. PHYSICAL CHEMISTRY, - ALLAHABAD '57; PH.D. PHYSICAL CHEMISTRY - I.I.T., KHARAGPUR '63.

SPECIALIZATIONS : TECHNOLOGY TRANSFER; PHYSICAL CHEMISTRY; MOLECULAR SIEVES.

EXPERIENCE : LECTURER, MEERUT COLLEGE, MEERUT, 1957-59; POST-DOCTORAL RESEARCH, ST. JOSEPH COLLEGE, HARTFORD, U.S.A., 1963-64; RESERCH ASSOCIATE, CASE INSTITUTE OF TECHNOLOGY, CLEVELAND, USA. 1964-66; POOL OFFIER (C.S.I.R.), N.C.L., PUNE, 1966-68; LECTURER, H.B.T.I., KANPUR, 1968; SCIENTIST B, C.F.R.I., DHANBAD, 1969-74; SCIENTIST C, R.R.L., JORHAT, 1974-82; PROJECT OFFICER (EI), C.S.I.R POLYTECHNOLOGY TRANSFER CENTRE, LUCKNOW 1982-89; SCIENTIST EII, C.S.I.R. POLYTECHNOLOGY TRANSER CENTRE, LUCKNOW SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : ENTREPRENEURAL AND INDUSTRIAL CONSULTANCY; TECHNOLOGY TRANSFER.

LANGUAGES : HINDI, BENGALI, ENGLISH.

VISITED : U.S.A., EUROPE.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 8, ARTICLES - 7, PATENTS TAKEN - 2, PROCESSES DEVELOPED -2, PROCESSES UNDER UTILISATION - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 21, APPLIED RESEARCH - 13, PILOT PLANT - 2, CONSULTANCY - 2, R & D MANAGEMENT - 5, TEACHING - 5, TECHNOLOGY TRANSFER & CONSULTANCY - 8.

25

SHRI M S VIRDI; (B. DECEMBER 20, 1941),

SCIENTIST EII, CSIR POLYTECHNOLOGY TRANSFER CENTRE, BHOPAL.

QUALIFICATIONS : B.SC. - LUCKNOW '59; M.SC. MATHEMATICS - LUCKNOW '62.

SPECIALIZATIONS : TECHNOLOGY TRANSFER; R & D MANAGEMENT; SCIENCE EDITING.

EXPERIENCE : JUNIOR RESEARCH ASSISTANT, R.D.S.O., MINISTRY OF RAILWAYS, LUCKNOW, 1962-64; S.S.A., C.M.E.R.I., 1964-70; SCIENTIST B AND SCIENTIST C, N.P.L., 1970-79; PROJECT OFFICER (EI), CSIR POLYTECHNOLOGY TRANSFER CENTRE, BHOPAL, 1978-84; SCIENTIST EII, CSIR POLYTECHNOLOGY TRANSFER CENTRE, BHOPAL SINCE JUNE, 1984.

PRESENT ACTIVITIES : TECHNOLOGY TRANSFER.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PAPERS & ARTICLES - 100.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MGMT -13, TECHNO-ECONOMIC SURVEYS - 3, PLANNING - 5, TECHNOLOGY TRANSFER - 25, EDITING - 10, DOCUMENTATION - 2.

26

MRS LAKSHMI BALASUBRAMANYAM; (B. SEPTEMBER 4, 1940),

SCIENTIST EI, PATENTS UNIT, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC NAGPUR '61; M.SC BOTANY - NAGPUR '63.

SPECIALIZATIONS : INTERNATIONAL SCIENTIFIC COLLABORATION AND TECHNOLOGY TRANSFER; SANITARY BIOLOGY; MICROBIOLOGY AND CHEMISTRY; IMPACT OF HEAVY METALS ON KINETICS OF BIOCOMMUNITY IN WASTE TREATEMENT; ORGANISATION OF TRAINING PROGRAMMES.

EXPERIENCE : J.S.A., SCIENTIST B, SCIENTIST C/INFORMATION OFFICER (C) AND SCIENTIST EI, N.E.E.R.I., 1964-88; SCIENTIST EI, PATENTS UNIT, C.S.I.R. SINCE JUNE, 1988.

PRESENT ACTIVITIES : PATENTS MANAGEMENT.

LANGUAGES : MARATHI, HINDI, ENGLISH.

VISITED : W.GERMANY.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH REPORTS - 1, MANUALS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP RES. - 7, LABORATORY DEMONSTRATION AND TEACHING - 6, TECHNOLOGY TRANSFER - 7, ADMINISTRATION - 11, INTERNATIONAL COLLABORATION - 5.

27

SHRI B V BHALKAR; (B. AUGUST 12, 1938),

SUPERINTENDING ARCHITECT (EI), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : G.D. ARCH. - J.J.SCHOOL OF ARTS, BOMBAY '62.

SPECIALIZATIONS : HOUSING AND PLANNING OF R & D BUILDINGS.

EXPERIENCE : DRAUGHTSMAN, B.H.E.L., BHOPAL, 1960-62; ARCHITECTURAL ASSISTANT, H.E.C., RANCHI, 1962-65; JUNIOR ARCHITECT (B) AND EXECUTIVE ARCHITECT (C), C.S.I.R., 1965-84; (ALSO ARCHITECT, MINISTRY OF WORKS, TANZANIA, 1975-80); SUPERINTENDING ARCHITECT (EI), C.S.I.R. SINCE APRIL, 1984.

PRESENT ACTIVITIES : PLANNING OF R & D BUILDINGS.

LANGUAGES : HINDI, MARATHI, ENGLISH.

VISITED : TANZANIA.

AWARDS & DISTINCTIONS : MEMBER, COUNCIL OF ARCHITECTURE, INDIA, 1975.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 25, PLANNING - 25.

28

SHRI D K BHATNAGAR; (B. JUNE 11, 1939),

SCIENTIST EI, COMPUTER DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) MATHEMATICS - DELHI '61; M.SC. MATHEMATICS - AGRA '63; CERTIFICATE IN STATISTICS - I.S.I., DELHI '66; DIPLOMA IN ELECTRONIC DATA PROCESSING - DELHI '67.

SPECIALIZATIONS : ELECTRONIC DATA PROCESSING; SYSTEM ANALYSIS & DESIGN; R & D MANAGEMENT; STATISTICS.

EXPERIENCE : RESEARCH ASSISTANT, MAULANA AZAD MEDICAL COLLEGE, DELHI, 1963-64; S.T.A., O.N.G.C., GUJARAT, 1964-65; S.S.A., SCIENTIST A, SCIENTIST B, AND SCIENTIST C, C.S.I.R., 1965-87; (ALSO TRAINING IN RESEARCH SYSTEM MANAGEMENT U.K., 1975-76); SCIENTIST EI, C.S.I.R. SINCE MAY, 1987; (ALSO TRAINING IN MANAGEMENT OF TECHNOLOGY CHANGE, U.K., 1989).

PRESENT ACTIVITIES : COMPUTERISATION OF FINANCE & ACCOUNTS, ADMINISTRATION AND OTHER RELATED ACTIVITIES AT CSIR HEAD QUARTERS.

LANGUAGES : HINDI, URDU, ENGLISH.

VISITED : U.K., FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 2, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MANAGEMENT - 15, SYSTEMS ANALYSIS AND COMPUTER PROCESSING - 7, STATISTICAL ANALYSIS & DESIGN - 5, MANAGEMENT OF COMPUTER ACTIVITIES - 5.

29

SHRI S CHANDRASEKARAN; (B. JUNE 2, 1952),

SCIENTIST EI, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - MADURAI '72; M.SC. PHYSICS - MADURAI '75; M.SC. (TECH) SCIENCE & TECHNOLOGY DEVELOPMENT - B.I.T.S., PILANI '78.

SPECIALIZATIONS : PHYSICS; R & D PLANNING; INFORMATION SYSTEMS.

EXPERIENCE : S.R.F., C.F.T.R.I., 1979; S.S.A., SCIENTIST B AND SCIENTIST C, C.S.I.R., 1979-89; SCIENTIST EI, C.S.I.R. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : PLANNING; SYSTEM ANALYSIS AND MANAGEMENT; INFORMATION SYSTEMS.

LANGUAGES : TAMIL, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MGMT. - 12, PLANNING - 12..

30

MRS RAJ KUMARI CHHIBER; (B. SEPTEMBER 28, 1943),

LIBRARY OFFICER (EI), COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI

QUALIFICATIONS : B.A. - DELHI '69; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '76; CERTIFICATE IN RUSSIAN - RUSSIAN CULTURAL CENTRE, NEW DELHI '86.

SPECIALIZATIONS : INFORMATION SCIENCE.

EXPERIENCE : ASSISTANT LIBRARIAN, SENIOR LIBRARIAN, LIBRARY OFFICER (A), LIBRARY OFFICER (B) AND LIBRARY OFFICER (C), C.S.I.R., 1964-89; LIBRARY OFFICER (EI), SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : LIBRARY AND INFORMATION MANAGEMENT.

LANGUAGES : HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION & REPROGRAPHY - 28.

31

SHRI M KRISHNA DAS; (B. AUGUST 15, 1947),

SCIENTIST EI, COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, NEW DELHI.

32

SHRI D C DHALL; (B. JUNE 13, 1939),

SCIENTIST EI, TRAINING CELL, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '62, M.SC (PREV) - AGRA '66; P.G. DIPLOMA '84.

SPECIALIZATIONS : DEMAND FORECASTING OF PETROLEUM PRODUCTS; TRANSPORTATION FOR OIL INDUSTRY; MARKET RESEARCH PERTAINING TO PETROLEUM PRODUCTS.

EXPERIENCE : J.L.A., S.L.A., J.S.A., S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, I.I.P., 1963-88; (ON DEPUTATION WITH OIL COORDINATION COMMITTEE AS JOINT DIRECTOR(PLANNING), MINISTRY OF PETROLEUM AND NATURAL GAS); SCIENTIST EI, C.S.I.R. SINCE AUGUST, 1988.

PRESENT ACTIVITIES : PLANNING AND EXECUTION OF TRAINING PROGRAMMES FOR SCIENTISTS OF CSIR LABORATORIES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : DENMARK, U.K., FRANCE.

PUBLICATIONS & PATENTS : TECH. REPORTS - 40, ARTICLE - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. & QUALITY CONTROL - 5, MARKET RESEARCH, FORECASTING AND PLANNING FOR OIL INDUSTRY - 20, PLANNING AND EXECUTION OF TRAINING PROGRAMMES - 5.

33

SHRI S N GANDHI; (B. OCTOBER 14, 1942),

SCIENTIST EI, INRIST CENTRE, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.A.(HONS) MATHEMATICS - DELHI '62; M.V.S IN COMPUTER OPERATIONS & APPLICATION - B.I.T.S., PILANI '91.

SPECIALIZATIONS : APPLICATION SOFTWARE DESIGN AND DEVELOPMENT; MANPOWER STUDIES.

EXPERIENCE : STATISTICAL ASSISTANT, OFFICE OF THE REGISTRAR GENERAL OF INDIA, NEW DELHI, 1963-65; J.T.A, S.T.A, SCIENTIST A, SCIENTIST B AND SCIENTIST C C.S.I.R., 1965-91; SCIENTIST EI, C.S.I.R. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : APPLICATION SOFTWARE DESIGN AND DEVELOPMENT - PRODUCTION OF DIRECTORIES OF SCIENTISTS AND TECHNOLOGISTS, MANPOWER STATISTICS AND SALARY PACKAGE(IMPRESS) AS INTEGRAL PART OF FINANCIAL ACCOUNTING

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : SOFTWARE PACKAGES DEVELOPED - 6; RES. PAPERS - 5, ARTICLES AND TECHNICAL REPORTS - 20.

AWARDS & DISTINCTIONS : COMMENDATION CERTIFICATE AND PLAQUE FOR DEVELOPMENT OF PROJECT ACCOUNTING SYSTEM (IMPACT), CSIR, 1994.

PROFESSIONAL EXPERIENCE(IN YEARS) : MANPOWER STUDIES - 28.

34

SHRI M B GOSWAMI; (B. AUGUST 31, 1950),

SCIENTIST EI, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - AGRA '70; CERTIFICATE IN COMPUTER PROGRAMMING - DELHI COLLEGE OF ENGINEERING '78; DIPLOMA IN JOURNALISM - BHARATIYA VIDYA BHAWAN ' 79.

SPECIALIZATIONS : RESEARCH PLANNING; PUBLICATION; TECHNOLOGY UTILISATION; ELECTRONICS.

EXPERIENCE : LECTURER, R.B.S. COLLEGE, AGRA, 1970-72; S.T.A., C.S.I.R., 1972-76; SCIENTIST B, NPL, NEW DELHI 1976-80; SCIENTIST C, C.E.E.R.I., PILANI, 1980-82; SCIENTIST C, C.S.I.R., 1982-86; SCIENTIST EI, C.S.I.R. SINCE MAY, 1986.

PRESENT ACTIVITIES : PLANNING AND CO-ORDINATION OF RESEARCH ACTIVITIES OF PHYSICS-BASED LABORATORIES.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 4, ARTICLES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 2, PLANNING - 6, TECHNOLOGY TRANSFER - 3, EDITING - 2.

35

SHRI R K GUPTA; (B. FEBRUARY 4, 1952),

SCIENTIST EI, PATENTS UNIT, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) GEOLOGY - DELHI '72; MASTER'S IN GEOGRAPHY - J.N.U. '75; CERTIFICATE IN RUSSIAN LANGUAGE - DELHI '73.

SPECIALIZATIONS : RESOURCE PLANNING AND MANAGEMENT; PATENT INFORMATION SYSTEMS; INTERNATIONAL PATENT SEARCH AND DOCUMENTATION; PATENT UTILISATION, LAW AND MANAGEMENT; PATENT PROCESSING.

EXPERIENCE : J.R.F, S.R.F., SCIENTIST B AND SCIENTIST C, C.S.I.R. 1978-90; (ALSO TRAINING IN INTERNATIONAL PATENT SEARCH & DOCUMENTATION, AND EUROPEAN PATENT SYSTEM, EUROPEAN PATENT OFFICE, HOLLAND AND AT WORLD INTELLECTUAL PROPERTY ORGANISATION, GENEVA, SWITZERLAND 1983; ATTENDED ADVANCED TRAINING PROGRAMME ON COMPUTER-BASED INFORMATION SYSTEMS, ANALYSIS AND DESIGN - I.I.M., AHEMEDABAD '84; ATTENDED TRAINING SEMINAR ON UNIX-CMC, NEW DELHI, 1986); SCIENTIST EI, C.S.I.R. SINCE AUGUST, 1990.

PRESENT ACTIVITIES : RESEARCH IN PATENT UTILISATION, INFORMATION AND LAW; ORGANISATION AND MANAGEMENT OF PATENT INFORMATION SYSTEMS INCLUDING COMPUTER-BASED RETRIEVAL SERVICES; PANTENT SEARCH, DOCUMENTATION AND AWARENESS SERVICES; PROCESSING OF CSIR PATENTS FILED IN INDIA AND ABROAD.

LANGUAGES : HINDI, ENGLISH, RUSSIAN.

VISITED : HOLLAND, SWITZERLAND, BELGIUM, LUXUMBERG.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 10.

36

SHRI S S GUPTA; (B. MARCH 10, 1935),

SCIENTIST EI, DIVISION FOR SCIENTIFIC & TECHNICAL PERSONNEL, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.A.(HONS) MATHEMATICS - DELHI '55; M.A. MATHEMATICS - DELHI '58.

SPECIALIZATIONS : STATISTICS; UTILISATION OF S & T MANPOWER RESOURCES.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A, SCIENTIST B, AND SCIENTIST C, C.S.I.R. 1961-91, SCIENTIST EI, C.S.I.R. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : STUDIES ON AVAILABILITY AND UTILISATION OF S & T MANPOWER RESOURCES.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 16.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, MANPOWER STUDIES & UTILISATION - 30, TECHNO-ECONOMIC SURVEY - 1.

37

DR J S KHAN; (B. FEBRUARY 19, 1950),

SCIENTIST EI, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. (ENGG) ELECTRICAL - A.M.U. '71; M.SC.(ENGG) ELECTRICAL - A.M.U. '74; PH.D. ELECTRICAL - A.M.U. '79.

SPECIALIZATIONS : ELECTRICAL MEASUREMENTS & INSTRUMENTATION; PROJECT PLANNING; R & D PLANNING.

EXPERIENCE : JUNIOR PROJECT ENGINEER, M/S ENGINEERING PROJECTS INDIA LTD, NEW DELHI, 1977-82; SCIENTIST C, C.S.I.R. 1982-88; SCIENTIST EI, C.S.I.R. SINCE SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D PLANNING.

LANGUAGES : URDU, HINDI, ENGLISH.

VISITED : SAUDI ARABIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 11, TECH ARTICLES - 2, CSIR DOCUMENTS/ PUBLICATIONS - 3, POPULAR ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 9.

38

SHRI S L MEHROTRA; (B. FEBRUARY 29, 1936),

SCIENTIST EI, INTERNATIONAL SCIENTIFIC COLLABORATION UNIT, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.COM. - AGRA '56; VISHARAD (HINDI) - BHU. '53

SPECIALIZATIONS : PROJECT PLANNING & APPRAISAL.

EXPERIENCE : HEAD ASSISTANT, OFFICE OF THE REGIONAL ASSISTANT COMPENSATION COMMISSIONER, MORADABAD, U.P., 1957-60; STENOGRAPHER, S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.R. , 1960-90; (ALSO TRAINING IN PLANNING AND APPRAISAL OF INDUSTRIAL PROJECTS, UNIVERSITY OF BRADFORD, U.K., 1978 AND ATTENDED A R & D WORKSHOP ON PROJECT MANAGEMENT, USA, 1987); SCIENTIST EI, C.S.I.R. SINCE SEPTEMBER, 1990.

PRESENT ACTIVITIES : PLANNING, APPRAISAL, IMPLEMENTATION, MONITORING, CONTROL AND EVALUATION OF PROJECTS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K., BULGARIA, U.S.A.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 25.

39

SHRI T D NAGPAL; (B. FEBRUARY 18, 1941),

SCIENTIST EI, HEAD, UNIT FOR SCIENCE DISSEMINATION, C.S.I.R, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '61; M.SC. ZOOLOGY - ALLAHABAD '63.

SPECIALIZATIONS : FISH BREEDING IN CAPTURE FISHERIES; SCIENCE WRITING AND EDITING; PUBLIC RELATIONS.

EXPERIENCE : ASSISTANT, CENTRAL FISHERIES RESEARCH INSTITUTE, BARRACKPORE, W. BENGAL, 1965-68; S.S.A., SCIENTIST B AND EDITOR (C), P.I.D., 1968-84; SCIENTIST C, C.S.I.R., 1984-88; SCIENTIST EI, C.S.I.R. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : DISSEMINATION OF ACTIVITIES OF CSIR TO MEDIA, USER PUBLIC RELATIONS; ORGANISATION OF EXIHIBITIONS.

LANGUAGES : HINDI, URDU, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 2, ARTICLES - 50.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 4, TEACHING - 1, EDITING - 16, DISSEMINATION OF SCIENCE PUBLIC RELATIONS - 6.

40

SHRI R K NANDY; (B. JANUARY 2, 1937),

SCIENTIST EI, DIVISION FOR SCIENTIFIC & TECHNICAL PERSONNEL, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - CALCUTTA '55; M.SC. MATHEMATICS - CALCUTTA '59; DIPLOMA IN STATISTICS - I.S.I., CALCUTTA '65.

SPECIALIZATIONS : MANPOWER PLANNING; STATISTICS; COMPUTER SCIENCE.

EXPERIENCE : STATISTICAL ASSISTANT, I.S.I., CALCUTTA, 1956-61; J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.R., 1962-87; (ALSO TRAINING IN COMPUTER SCIENCE, I.S.I., CALCUTTA, 1969-70); SCIENTIST EI, C.S.I.R. SINCE JANUARY, 1987.

PRESENT ACTIVITIES : MANAGEMENT OF SCIENTISTS' POOL.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, ARTICLES - 15.

PROFESSIONAL EXPERIENCE(IN YEARS) : S & T MANPOWER STUDIES - 15, TECHNO-ECONOMIC SURVEYS - 10, PRODUCTION, MANAGEMENT & PUBLICATION OF PERIODICALS AND THEIR DISTRIBUTION - 7, MANAGEMENT OF SCIENTISTS' POOL - 6.

41

DR SURYA PRAKASH; (B. JANUARY 5, 1939),

SCIENTIST EI, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '59; M.SC. APPLIED MATHEMATICS-ROORKEE '62; PH.D. RELIABILITY MODELS IN OPERATIONS RESEARCH - DELHI '74.

SPECIALIZATIONS : APPLIED MATHEMATICS; STATISTICS; OPERATIONAL RESEARCH; R & D PLANNING AND MANAGEMENT.

EXPERIENCE : J.S.A., A.R.D.E, PUNE; S.S.A. AND J.S.O., DIRECTORATE OF SCIENTIFIC EVALUATION, (D.R.D.O), NEW DELHI 1962-77; SCIENTIST B AND SCIENTIST C, C.S.I.R., 1977-88; SCIENTIST EI, C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D PLANNING AND MANAGEMENT.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4, R & D MANAGEMENT - 14, PLANNING - 13.

42

DR RAJENDRA PRASAD; (B. DECEMBER 20, 1947),

SCIENTIST EI, INTERNATIONAL SCIENTIFIC COLLABORATION DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) - B.H.U. '67; M.SC. CHEMISTRY - B.H.U. '69; PH.D. ORGANIC CHEMISTRY - B.H.U. '73; M.SC. TECHNOLOGICAL ECONOMICS - STIRLING UNIVERSITY, U.K. '83.

SPECIALIZATIONS : PESTICIDES AND CHEMICALS; POLICY RESEARCH IN CHEMICAL AREAS; DATA BASE MANAGEMENT AND PROGRAMMING; INTERNATIONAL SCIENTIFIC COLLABORATION.

EXPERIENCE : J.R.F. AND S.R.F., B.H.U., VARANASI, 1969-75; POST DOCTORAL FELLOW, I.I.T., KANPUR, 1975-76; SCIENTIST B AND SCIENTIST C, R.R.L., JORHAT, 1976-81; SCIENTIST C AND SCIENTIST EI, PLANNING DIVISION, C.S.I.R. 1981-87; (ALSO PRINCIPAL SCIENTFIC OFFICER, DSIR, 1987-90); SCIENTIST EI, C.S.I.R. SINCE APRIL, 1990.

PRESENT ACTIVITIES : R & D PLANNING & MANAGEMENT; CO-ORDINATION OF BILATERL SCIENTIFIC COLLABORATION PROGRAMMES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

VISITED : U.K., FRG, TRINIDAD, TOBAGO, BANGLADESH, THAILAND, KENYA, BOTSWANA.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 3, ARTICLE - 1, PATENTS FILED - 3, PROCESS DEVELOPED - 1, PROCESS UNDER UTILISATION - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, APP. RES. - 5, PILOT PLANT - 5, CONSULTANCY - 5, R & D PLANNING - 10, R & D MANAGEMENT - 10, TECHNO- ECONOMIC SURVEY - 1, WRITING & EDITING R & D NEWSLETTER - 3, COMPUTER PROCESSING - 8, INTERNATIONAL SCIENTIFIC COLLABORATION - 3.

43

SHRI J K PURI; (B. SEPTEMBER 5, 1946),

EXECUTIVE ARCHITECT (EI), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN DRAFTSMANSHIP (CIVIL) - DIRECTORATE OF TECHNICAL EDUCATION, DELHI '65; GOVT. DIPLOMA IN ARCHITECTURE - MAHARASHTRA '72.

SPECIALIZATIONS : PLANNING, DESIGNING AND DETAILING OF R & D BUILDINGS AND HOUSING.

EXPERIENCE : DRAFTSMAN(CIVIL), DRAFTSMAN(STRUCTURAL) AND ARCHITECTURAL ASSISTANT, C.P.W.D., 1966-74; SENIOR ARCHITECTURAL ASSISTANT, AND ASSISTANT EXECUTIVE ARCHITECT (B), C.S.I.R., 1974-86; EXECUTIVE ARCHITECT (C), C.S.I.R. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : PLANNING & DESIGNING OF HOUSING, LABORATORY BUILDINGS, ETC.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSULTANCY - 10, PLANNING, DESIGNING & DETAILING -19, ADMN - 10.

44

SHRI B K RAMAPRASAD; (B. APRIL 15, 1949),

SCIENTIST EI, INTERNATIONAL SCIENTIFIC COLLABORATION UNIT, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - MYSORE '69; M.SC. GEOLOGY - MYSORE '71; DIPLOMA IN RUSSIAN - MYSORE '71; CERTIFICATE IN FRENCH - ALLIANCE FRANCAIS, NEW DELHI '85.

SPECIALIZATIONS : HYDROGEOLOGY; WATER RESOURCE MANAGEMENT; SCIENCE EDITING; INTERNA-

TIONAL SCIENTIFIC COLLABORATION; PROJECT PLANNING & APPRAISAL; COMPUTER PROGRAMMING; DATA BASE MANAGEMENT.

EXPERIENCE : ASSISTANT GEOLOGIST AND FIELD ASSISTANT, GROUND WATER SURVEY UNIT, DEPARTMENT OF MINES AND GEOLOGY, KARNATAKA, 1971-72 & 1976-77; (ALSO TRAINING IN HYDROGEOLOGY, U.S.S.R., 1972-76); S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.R., 1977-90; SCIENTIST EI, C.S.I.R. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : INTERNATIONAL SCIENTIFIC COLLABORATION.

LANGUAGES : TAMIL, KANNADA, HINDI, ENGLISH, RUSSIAN, FRENCH.

VISITED : U.S.S.R., U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORTS - 2, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, SURVEY OF NATURAL RESOURCES - 5, PLANNING - 6, ADMINISTRATION - 6, EDITING - 6, DOCUMENTATION - 6, INTERNATIONAL SCIENTIFIC COLLABORATION - 10.

45

SHRI O PRASADA RAO; (B. JUNE 5, 1945),

SCIENTIST EI, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.E. MECHANICAL - KARNATAKA '68; DIPLOMA IN PROJECT MANAGEMENT - PUNJABI '85.

SPECIALIZATIONS : DESIGN & DEVELOPMENT; PLANNING OF R & D PROJECTS.

EXPERIENCE : SCIENTIST B AND SCIENTIST C, C.S.I.R., 1976-87; SCIENTIST EI, C.S.I.R. SINCE SEPTEMBER, 1987.

PRESENT ACTIVITIES : PLANNING.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 6, TECH. DEVT. - 6, PLANNING - 10.

46

SHRI S C RASTOGI; (B. JULY 20, 1943),

SCIENTIST EI, INRIST CENTRE, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '63; B.T. SCIENCE & MATHEMATICS - AGRA '64; M.SC. MATHEMATICS - MEERUT '69.

SPECIALIZATIONS : DEMAND FORECASTING; MARKET SURVEY; DATA BASE MANAGEMENT.

EXPERIENCE : ASST. TEACHER - K G INTER COLLEGE MORADABAD, 1964; J.L.A., S.L.A., J.S.A., I.I.P., DEHRADUN, 1964-70; J.S.A., S.S.A., SCIENTIST A, SCIENTSIT B AND SCIENTSIT C, I.I.P., NEW DELHI, 1971-88; SCIENTIST C, C.S.I.R., 1988-1991; SCIENTIST E1, CSIR SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : APPLICATIONS OF STATISTICAL & MATHEMATICAL TECHNIQUES, DATA BASE MANAGEMENT STUDIES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH. REPORTS - 36.

PROFESSIONAL EXPERIENCE(IN YEARS) : DEMAND FORECASTING & STATISTICAL ANALYSIS-18 PHYSICO-CHEMICAL ANALYSIS - 3, QUALITY CONTROL - 3, DOCUMENTATION - 2.

47

SHRI G A REDDY; (B. JANUARY 1, 1948),

SCIENTIST EI, CSIR POLYTECHNOLOGY TRANSFER CENTRE, HYDERABAD.

QUALIFICATIONS : B.TECH. CHEMICAL ENGINEERING - OSMANIA '71.

SPECIALIZATIONS : PROCESS DEVELOPMENT AND DESIGN; TECHNOLOGY TRANSFER.

EXPERIENCE : SHIFT CHEMIST (PRODUCTION), M/S. SATYADEV CHEMICALS(P) LTD, BARODA, 1972; S.S.A., R.R.L., JORHAT, 1973-81; SCIENTIST B AND SCIENTIST C, CSIR POLYTECHNOLOGY TRANSFER CENTRE, HYDERABAD, 1981-88; SCIENTIST EI, C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : TECHNOLOGY TRANSFER.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : REVIEWS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 7, PRODN - 1, TECHNOLOGY TECHNOLOGY TRANSFER - 6.

48

SHRI R S SAXENA; (B. NOVEMBER 20, 1949),

SCIENTIST EI, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) APPLIED GEOPHYSICS - I.S.M., DHANBAD '71; M.SC. APPLIED GEOPHYSICS - I.S.M., DHANBAD '72.

SPECIALIZATIONS : GEOPHYSICS; RURAL DEVELOPMENT; R & D PLANNING & COORDINATION.

EXPERIENCE : J.R.F., S.R.F., S.S.A. AND SCIENTIST B, N.G.R.I., HYDERABAD, 1973-81; SCIENTIST B AND SCIENTIST C, C.S.I.R., 1981-88; SCIENTIST EI, C.S.I.R. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : RURAL DEVELOPMENT.

LANGUAGES : HINDI, ENGLISH.

VISITED : ITALY, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORT - 1, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 4, R&D MGMT -12, SURVEY OF NAT. RES. - 4, PLANNING - 16, EDITING - 2, DOCUMENTATION - 4, EXTENSION - 1.

49

SHRI Y P SEHGAL; (B. MAY 2, 1940),

SCIENTIST EI, HUMAN RESOURCE DEVELOPMENT GROUP, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '60; M.SC. MATHEMATICS - AGRA '62; CERTIFICATE IN STATISTICAL METHODS - I.S.I., DELHI '69; CERTIFICATE IN DOCUMENTATION AND INFORMATION SERVICES - INSDOC, NEW DELHI

'75; NCC BASIC CERTIFICATE IN SYSTEMS ANALYSIS - U.K. '79; CERTIFICATE IN PASCAL PROGRAMMING - CMC, DELHI '85.

SPECIALIZATIONS : DATA BASE MANAGEMENT; MANPOWER PLANNING; MANPOWER STATISTICS; INFORMATION SCIENCE.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.R., 1963-91; SCIENTIST EI, C.S.I.R. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : MANPOWER STUDIES; DATA BASE MANAGEMENT OF EDUCATIONAL OUTTURN STATISTICS.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : TECH. REPORTS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNO-ECONOMIC SURVEYS - 5, MANPOWER PLANNING - 5, COMPUTER PROCESSING - 10, MANPOWER STUDIES - 20.

50

SHRI B C SHARMA; (B. MAY 10, 1939),

SCIENTIST EI, INTERNATIONAL SCIENTIFIC COLLABORATION UNIT, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '60; M.A. ECONOMICS - HIMACHAL PRADESH '80; DIPLOMA IN JOURNALISM - BHARTIYA VIDYA BHAWAN, NEW DELHI '75.

SPECIALIZATIONS : TECHNOLOGY UTILISATION; INTERNATIONAL SCIENTIFIC COLLABORATION; SCIENCE MANAGEMENT.

EXPERIENCE : S.L.A., N.C.L., PUNE 1961-62; J.S.A., C.M.R.S., DHANBAD, 1962-65; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.R., 1965-86; SCIENTIST EI, C.S.I.R. SINCE APRIL, 1986.

PRESENT ACTIVITIES : INTERNATIONAL SCIENTIFIC COLLABORATION.

LANGUAGES : HINDI, ENGLISH

VISITED : U.K., U.S.S.R., BULGARIA, IRAQ, JORDAN, POLAND,CZECHOSLOVAKIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 4, TECHNOLOGY UTILISATION - 13, INTERNATIONAL SCIENTIFIC COLLABORATION - 12.

51

DR DEVENDRA SHARMA; (B. JUNE 7, 1938),

SCIENTIST EI, INRIST CENTRE, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '58; M.SC. STATISTICS - A.M.U. '62; PH.D. STATISTICS - MEERUT '80.

SPECIALIZATIONS : PROCESSING, COMPUTERISATION AND UTILISATION OF MANPOWER DATA FORMULATING STATISTICAL AND ECONOMETRIC MODELS.

EXPERIENCE : S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.R., 1963-86; (ALSO TRAINING IN MANPOWER PLANNING, STATISTICAL MODELLING AND FORECASTING, POLAND, FRANCE, U.K., 1977); SCIENTIST EI, C.S.I.R. SINCE SEPTEMBER, 1986.

PRESENT ACTIVITIES : PROCESSING & COMPUTERISATION OF MANPOWER DATA AND STUDY & ANALYSIS FOR FORMULATING STATISTICAL & ECONOMETRIC MODELS.

LANGUAGES : HINDI, ENGLISH.

VISITED : POLAND, FRANCE, W. GERMANY, U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, ARTICLES - 18, SCIENTIFIC BOOK - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : PROCESSING, COMPUTERISATION, UTILISATION & FORMULATION OF STATISTICAL & ECONOMETRIC MODELS OF MANPOWER DATA - 30.

52

SHRI R S SHARMA; (B. JULY 15, 1940),

SCIENTIST EI, INRIST CENTRE, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - RAJASTHAN '61; M.SC. STATISTICS - RAJASTHAN '64; CERTIFICATE IN GERMAN LANGUAGE, MAX MULLER BHAVAN, DELHI '69; P.G. CERTIFICATE IN STATISTICS AND OPERATIONAL RESEARCH - DELHI '71.

SPECIALIZATIONS : STATISTICS; UTILISATION OF S & T MANPOWER RESOURCES; MANPOWER STUDIES.

EXPERIENCE : STATISTICAL ASSISTANT, DEPARTMENT OF ECONOMICS AND STATISTICS, JAIPUR, 1964-65; J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.R., 1965-91; SCIENTIST EI, C.S.I.R. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : MANPOWER UTILIZATION & INTERNATIONAL COLLABORATION.

LANGUAGES : HINDI, SANSKRIT, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : MANPOWER STUDIES AND SURVEYS - 8, TALENT MATCHING - 14, UTILISATION OF S&T MANPOWER - 6.

53

SHRI S N SHARMA; (B. MARCH 15, 1946),

SCIENTIST EI, TECHNOLOGY UTILISATION DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY - MEERUT '69.

SPECIALIZATIONS : TECHNOLOGY TRANSFER; INFORMATION AND LIAISON.

EXPERIENCE : ASSISTANT TECHNICAL OFFICER, D.C.M. CHEMICALS, NEW DELHI, 1969-72; S.T.A., SCIENTIST B AND SCIENTIST C, C.S.I.R. 1972-87; SCIENTIST EI, C.S.I.R. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : TECHNOLOGY TRANSFER; INFORMATION AND LIAISON.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : ARTICLE - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3, TECHNOLOGY TRANSFER - 17.

54

SHRI N P SRIVASTAVA; (B. JANUARY 1, 1939),

SCIENTIST EI, HUMAN RESOURCE DEVELOPMENT GROUP, C.S.I.R COMPLEX, NEW DELHI.

QUALIFICATIONS : B.A. - B.H.U. '58; M.A. ECONOMICS - AGRA '66; DIPLOMA IN HUMAN RESOURCE MANAGEMENT - IGNOU '93.

SPECIALIZATIONS : DATA COLLECTION OF S & T MANPOWER; MANPOWER STUDIES.

EXPERIENCE : COMPUTOR, J.R.A., J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.R., 1958-91; SCIENTIST EI, C.S.I.R SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : DATA COLLECTION AND MANPOWER STUDIES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPER - 1, ARTICLES - 9

PROFESSIONAL EXPERIENCE(IN YEARS) : DATA COLLECTION AND MANPOWER STUDIES - 33.

55

SHRI O P VISHWABHAN; (B. JANUARY 1, 1937),

SCIENTIST EI, HUMAN RESOURCE DEVELOPMENT GROUP C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '54; M.SC. MATHEMATICS - AGRA '57; CERTIFICATE IN ADVANCED STATISTICS - U.P. GOVT '58.

SPECIALIZATIONS : MANPOWER STUDIES AND SURVEYS; R & D MANAGEMENT.

EXPERIENCE : STATISTICAL ASSISTANT, ECONOMICS AND STATISTICS DEPARTMENT, LUCKNOW, 1960-62; J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.R., 1962-91; (ALSO TRAINING IN COMPUTER PROGRAMMING, I.I.T., KANPUR, 1971); SCIENTIST EI, C.S.I.R. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : MANAGEMENT OF EXTRAMURAL RESEARCH SCHEMES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : MANPOWER STUDIES AND SURVEYS - 25.

56

SHRI NASEER AHMAD; (B. FEBRUARY 2, 1943)),

SCIENTIST C, C.S.I.R. POLYTECHNOLOGY TRANSFER CENTRE, PATNA.

QUALIFICATIONS : B.SC. - BIHAR '63; M.SC. STATISTICS - PATNA '67.

SPECIALIZATIONS : ECONOMETRICS; TECHNOLOGY TRANSFER; INFORMATION DISSEMINATION; INDUSTRIAL LIAISON; AIR POLLUTION INVESTIGATION.

EXPERIENCE : SCIENCE TEACHER, MAGHAR HIGH SCHOOL, CHAPRA, 1963-64; SENIOR SCIENCE TEACHER, GANDHI SMARAK HIGH SCHOOL, SIWAN, 1968-70; S.L.A. AND J.T.A., C.M.R.S., DHANBAD, 1970-76; S.S.A. AND SCIENTIST B, C.S.I.R. POLYTECHNOLOGY TRANSFER CENTRE, PATNA, 1976-86; SCIENTIST C, C.S.I.R. POLYTECHNOLOGY TRANSFER CENTRE, PATNA SINCE FEBRUARY, 1986; (ALSO ATTENDED A COURSE ON TECHNOLOGY INFORMATION SYSTEM & MANAGEMENT, CONDUCTED BY NRDC, FEBRUARY, 1986).

PRESENT ACTIVITIES : DIAGNOSTIC STUDIES OF INDUSTRIAL PROBLEMS; TECHNOLOGY TRANSFER; RURAL DEVELOPMENT; INFORMATION COLLECTION AND DISSEMINATION.

LANGUAGES : URDU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECHNICAL REPORTS AND ARTICLES - MANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSULTANCY - 8, TEACHING - 1, TECHNO- ECONOMIC SURVEYS - 8, TECHNOLOGY TRANSFER - 8, EXTENSION - 9, INFORMATION DISSEMINATION, LIAISON AND REPORT WRITING - 9; AIR POLLUTION ASSESSMENT.

57

SHRI D D AHUJA; (B. NOVEMBER 14, 1939),

EXECUTIVE ARCHITECT (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN DRAFTSMANSHIP (CIVIL) - DIRECTORATE OF TECHNICAL EDUCATION, DELHI '61; GOVT DIPLOMA IN ARCHITECTURE - MAHARASHTRA STATE '72; G D. ARCHITECTURE - MAHARASHTRA GOVERNMENT '72.

SPECIALIZATIONS : HOUSING AND PLANNING OF R & D BUILDINGS, FLATS, GUEST HOUSES AND LIBRARIES.

EXPERIENCE : JUNIOR DRAFTSMAN, C.S.I.R., C.C.I. AND C.P.W.D., 1962-70; PLANNING DRAFTSMAN, TOWN & COUNTRY PLANNING ORGANISATION, NEW DELHI, 1970; SENIOR ARCHITECTURAL DRAFTSMAN, SENIOR ARCHITECTURAL ASSISTANT AND ASSISTANT EXECUTIVE ARCHITECT (B), C.S.I.R. 1970-86; EXECUTIVE ARCHTECT (C), C.S.I.R. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : PLANNING, DESIGNING AND DETAILING OF HOUSES, LABORATORY BUILDINGS, ETC.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 23, CONSULTANCY - 15, CONSTRUCTION - 28, PLANNING - 23, ADMN - 9.

58

SHRI I M L AHUJA; (B. OCTOBER 22, 1938),

SCIENTIST CI, DIVISION FOR SCIENTIFIC & TECHNICAL PERSONNEL, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.A. - PANJAB '61; M.A. ENGLISH - BHAGALPUR '65.

SPECIALIZATIONS : UTILISATION OF S & T MANPOWER RESOURCES; PUBLICATION AND EDITING; SCIENTIFIC ABSTRACTING.

EXPERIENCE : ADMINISTRATION, J.R.A., S.R.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.R., 1958-90; (ALSO TRAINING IN S & T MANPOWER PLANNING, IAMR, NEW DELHI, MARCH 1983); SCIENTIST CI, C.S.I.R. SINCE JUNE, 1990.

PRESENT ACTIVITIES : SCIENTIFIC ABSTRACTING; SCIENCE EDITING.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 6, DIRECTORY OF CSIR SCIENTISTS IN VI VOLUMES (JOINTLY).

PROFESSIONAL EXPERIENCE(IN YEARS) : S & T MANPOWER UTILISATION, PUBLICATION AND EDITING - 31.

59

SHRI VIJAY BAJAJ; (B. APRIL 4, 1940),

REPROGRAPHY OFFICER (C), COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : I.SC. - PANJAB '56.

SPECIALIZATIONS : PRODUCTION OF VIDEO FILMS; PHOTOGRAPHY; DIRECTION & SCRIPT WRITING; POST PRODUCTION.

EXPERIENCE : DARKROOM ASSISTANT, REPROGRAPHIC ASSISTANT, PHOTOGRAPHER, S.T.A., SCIENTIST A AND REPROGRAPHY OFFICER (B), INSDOC, 1959-84; REPROGRAPHY OFFICER (C), C.S.I.R. SINCE SEPTEMBER, 1984.

PRESENT ACTIVITIES : REPROGRAPHY; IMPARTING TRAINING; PRODUCTION OF TAPE SLIDES, VIDEO PROGRAMMES AND PHOTOGRAPHIC EXHIBITION PRINTS, ETC.

LANGUAGES : HINDI, PUNJABI, ENGLISH

PUBLICATIONS & PATENTS : ARTICLES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPROGRAPHY - 28.

60

SHRI TILAK BASU; (B. JANUARY 5, 1950),

SCIENTIST C, C.S.I.R. POLYTECHNOLOGY TRANSFER CENTRE, CALCUTTA.

QUALIFICATIONS : B.CH.E. CHEMICAL ENGINEERING - JADAVPUR '72.

SPECIALIZATIONS : PLANT ENGINEERING/MANAGEMENT; INFORMATION STORAGE AND RETRIEVAL SYSTEMS.

EXPERIENCE : SUPERVISOR, M/S FURLEC & COMPANY, CALCUTTA, 1973-74; CHEMICAL ENGINEER (DEVELOPMENT), M/S KUSUM PRODUCTS LTD., RISHRA, W. BENGAL, 1974-75; CHEMICAL ENGINEER, M/S FURLEC & COMPANY, CALCUTTA, 1975-76; CHEMICAL ENGINEER, M/S S.G. ENTERPRISE, RANCHI, BIHAR, 1976-78; J.S.A. AND S.S.A., R.R.L., HYDERABAD, 1978-80; SCIENTIST B, C.S.I.R., POLYTECHNOLOGY TRANSFER CENTRE, SHILLONG, 1980-87; SCIENTIST C, C.S.I.R., POLYTECHNOLOGY TRANSFER CENTRE, SHILLONG SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : TECHNOLOGY TRANSFER; DOCUMENTATION; TECHNOLOGY MISSION ON RURAL WATER SUPPLY.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, TECH. REPORTS - 1, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 2, CONSULTANCY - 1, CONSTRUCTION - 1, PRODUCTION - 1, PLANNING - 2, TECHNOLOGY TRANSFER - 3, SALES MARKETING - 6 MONTHS, DOCUMENTATION - 5.

61

SHRI PRAMOD BHUSHAN; (B. OCTOBER 15, 1959),

SCIENTIST C, COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : B.SC.(ENGG.) ELECTRICAL ENGINEERING - ROORKEE '82.

EXPERIENCE : SCIENTIST E2, NATIONAL COUNCIL FOR CEMENT & BUILDING, 1983-92; SCIENTIST C, C.M.E.R.I., 1992-92; SCIENTIST C, C.S.I.R. SINCE FEBRUARY, 1992.

PRESENT ACTIVITIES : SCIENCE DISSEMINATION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 20.

PROFESSIONAL EXPERIENCE(IN YEARS) : (TOTAL 11 YEARS).

62

SHRI ALOKE K BOSE; (B. NOVEMBER 24, 1948),

SCIENTIST C, PATENTS UNIT, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.TECH. ELECTRICAL WITH ELECTRONICS - I.I.T., KANPUR '71.

SPECIALIZATIONS : ELECTRONICS & INSTRUMENTATION.

EXPERIENCE : MANAGER, MEDICAL SYSTEMS DIVISION, EASTERN REGION; PHILIPS INDIA 1972-80; ESTATE MANNAGER, ST. PAUL 'S SCHOOL, DARJEELING, 1980-83; ASSISTANT SECRETARY, THE INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS, 1983-88; SCIENTIST C, C.S.I.R. SINCE MAY, 1988.

PRESENT ACTIVITIES : TECHNICAL EVALUATION & PROTECTION OF INTELLELTUAL PROPERTY

LANGUAGES : BENGALI, HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CHARTERED ENGINEER & MEMBER, THE INSTITUTION OF ENGINEERS (INDIA); ASSOCIATE MEMBER, INSTITUTION OF INSTRUMENTATION SCIENTISTS & TECHNOLOGISTS (INDIA); FELLOW, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS (INDIA).

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNO-COMMERICAL MGMT - 3, TECH MGMT - 10.

63

SHRI B K CHOPRA; (B. SEPTEMBER 1, 1939),

STRUCTURAL ENGINEERING OFFICER (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - BOMBAY '59; A.M.I.E. CIVIL - INSTITUTION OF ENGINEERS (INDIA) '65.

SPECIALIZATIONS : PRESTRESSED CONCRETE TECHNOLOGY; PLANNING OF R & D BUILDINGS.

EXPERIENCE : JUNIOR ENGINEER AND CIVIL ENGINEER, C.S.I.R., 1959-84; STRUCTURAL ENGINEERING OFFICER (C), C.S.I.R. SINCE JULY, 1984.

PRESENT ACTIVITIES : STRUCTURAL DESIGN; PLANNING OF R & D BUILDINGS.

LANGUAGES : HINDI, ENGLISH.

VISITED : TANZANIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 26, CONSULTANCY - 3, CONSTN - 5.

64

SHRI S R DAS; (B. JULY 15, 1938),

SCIENTIST CI, HUMAN RESOURCE DEVELOPMENT GROUP, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - CALCUTTA '60; COMPUTER'S CERTIFICATE - I.S.I., CALCUTTA '67; CERTIFICATE IN STATISTICAL METHODS AND ITS APPLICATIONS - I.S.I., NEW DELHI '70; M.V.S. COMPUTER OPERATIONS & APPLICATION - B.I.T.S. PILANI, 91.

SPECIALIZATIONS : S & T MANPOWER STUDIES; SOFTWARE DEVELOPMENT; DATA BASE MANAGEMENT.

EXPERIENCE : CODER AND COMPILER, OFFICE OF THE DEPUTY SUPERINTENDENT OF CENSUS OPERATIONS, WEST BENGAL, 1960-62; STATISTICAL ASSISTANT, DIRECTORATE OF MARKETING AND INSPECTION, CALCUTTA, 1962-65; J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.R., 1965-87; SCIENTIST C, C.S.I.R. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : MANPOWER STUDIES; SOFTWARE DEVELOPMENT; DATABASE MANAGEMENT.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECHNICAL REPORTS - 1, DIRECTORY OF CSIR SCIENTISTS IN SIX VOLUMES.

PROFESSIONAL EXPERIENCE(IN YEARS) : MANPOWER STUDIES - 24, DATA BASE MANAGEMENT - 2.

65

SHRI MATA DEEN; (B. JULY 1, 1939),

SCIENTIST C, INRIST CENTRE, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - B.H.U. '60; B.SC.(HONS.) STATISTICS - POONA '61; M.SC. STATISTICS - POONA '62.

SPECIALIZATIONS : STATISTICS; MANPOWER STUDIES AND UTILISATION.

EXPERIENCE : SECTION OFFICER, INDIA METEOROLOGICAL DEPARTMENT, 1963; J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.R., 1963-87; (ALSO S.R.A., I.N.S.A., NEW DELHI, 1970-72); SCIENTIST C, C.S.I.R. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : TOKTEN & INRIST PROGRAMMES; MANPOWER STUDIES.

LANGUAGES : HINDI, MARATHI, SANSKRIT, ENGLISH.

VISITED : FRANCE, U.S.A., CANADA.

PUBLICATIONS & PATENTS : ARTICLES - 33.

PROFESSIONAL EXPERIENCE(IN YEARS) : MANPOWER STUDIES & UTILISATION - 28; NRI DIRECTORY COMPILATION - 2.

66

SHRI SUBHASH CHANDER DHAWAN; (B. JAN 6, 1950.),

SCIENTIST C, EXTRA MURAL RESEARCH DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) MATHEMATICS - DELHI '70; M.SC. MATHEMATICS - DELHI '72; M.SC. OPERATIONAL RESEARCH - DELHI '74.

SPECIALIZATIONS : MATHEMATICS; OPERATIONAL RESEARCH.

EXPERIENCE : J.R.F., S.S.A. AND SCIENTIST B, C.S.I.R., 1975-87; SCIENTIST C, C.S.I.R. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : EXTRA MURAL RESEARCH MANAGEMENT; HANDLING SHANTI SWARUP BHATNAGAR PRIZES & C.S.I.R YOUNG SCIENTISTS AWARDS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 1, DIRECTORY COMPILATION - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : EXTRA MURAL RESEARCH - 14.

67

SHRI BISHAN DUTT; (B. DECEMBER 3, 1936),

EXECUTIVE ARCHITECT (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : NATIONAL DIPLOMA IN ARCHITECTURE - A.I.C.T.E. '68.

SPECIALIZATIONS : HOUSING DESIGN AND PLANNING.

EXPERIENCE : SENIOR ARCHITECTURAL DRAFTSMAN, SENIOR ARCHITECTURAL ASSISTANT AND ASSISTANT EXECUTIVE ARCHITECT, C.S.I.R., 1963-88; EXECUTIVE ARCHITECT (C), C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : ARCHITECTURAL PLANNING.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 17.

68

SHRI S K GANGAL; (B. MARCH 18, 1936),

EXECUTIVE ENGINEER (C), COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

69

SHRI M C GARG; (B. AUGUST 21, 1947),

EXECUTIVE ENGINEER ELECTRICAL (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - RAJASTHAN '66.

SPECIALIZATIONS : PLANNING OF ELECTRIFICATION WORKS; DESIGN OF ELECTRICAL SUBSTATIONS.

EXPERIENCE : SUPERVISOR, P.W.D., RAJASTHAN, 1966-68; JUNIOR ENGINEER, ASSISTANT ELECTRICAL ENGINEER (A)

AND ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. 1981-86; EXCUTIVE ENGINEER (C), C.S.I.R. SINCE NOVEMBER, 1986.

PRESENT ACTIVITIES : PLANNING OF ELECTRIFICATION WORKS; DESIGN OF ELECTRICAL SUBSTATIONS, LIFTS & AIR-CONDITIONING PLANTS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 19, CONSTRUCTION - 19, MAINTENANCE 20, CONSULTANCY - 2, PLANNING - 21.

70

SHRI A P GOEL; (B. MARCH 12, 1939),

SCIENTIST CI, TECHNOLOGY UTILISATION DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE IN MECHANICAL DRAUGHTSMANSHIP - DELHI '60; MASTER OF VOCATIONAL STUDIES IN COMPUTER OPERATIONS AND APPLICATION - B.I.T.S., PILANI '91.

SPECIALIZATIONS : DESIGN AND DRAFTING OF ENGINEERING PLANTS; INFORMATION COMPILATION, STORAGE AND RETRIEVAL; INDIGENOUS TECHNOLOGY UTILISATION.

EXPERIENCE : JUNIOR DRAUGHTSMAN, N.P.L., NEW DELHI, 1961-64; SENIOR MECHANICAL DRAUGHTSMAN, J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.R., 1964-87; (ALSO SENIOR INDUSTRIAL DRAUGHTSMAN, ON DEPUTATION, P.I.C.O./ P.S.S.I.C., CHANDIGARH, 1974-78); SCIENTIST CI, C.S.I.R. SINCE APRIL, 1987.

PRESENT ACTIVITIES : WORK RELATING TO RECOGNITION OF R & D UNITS, DELICENSING CASES, FRESH APPROVAL AND RESEARCH REVIEW GROUP COMMITTEES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : PATENT TAKEN - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 10, CONSULTANCY - 5, TECHNOLOGY UTILIZATION - 15.

71

SHRI H R GROVER; (B. JULY 16, 1957),

SCIENTIST C, COMPUTER DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : M.SC. OPERATIONAL RESEARCH - DELHI '79; CERTIFICATE IN COMPUTER APPLICATIONS - I.S.I., DELHI '80.

SPECIALIZATIONS : OPERATIONAL RESEARCH; COMPUTER APPLICATIONS.

EXPERIENCE : S.T.A., T.O.(A) AND SCIENTIST B, C.S.I.O., CHANDIGRAH, 1981-87; SCIENTIST B, C.S.I.R. 1987-90, SCIENTIST C, C.S.I.R. SINCE APRIL, 1990.

PRESENT ACTIVITIES : SYSTEMS ADMINISTRATION AND COMPUTER APPLICATIONS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFEESIONAL EXPERIENCE(IN YEARS) : PLANNING - 1, COMPUTER PROCESSING - 8.

72

DR CHANDRA GUPT; (B. AUGUST 18, 1951),

SCIENTIST C, COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS DELHI '72; M.SC. PHYSICS - DELHI '74. PH.D. PHYSICS - DELHI '79.

SPECIALIZATIONS : HIGH ENERGY PHYSICS; COMPUTER SYSTEMS & PROGRAMMING.

EXPERIENCE : RESEARCH ASSOCIATE, DEPT. OF PHYSICS DELHI UNIVERSITY, 1979-84; LECTURER, RAJDHANI COLLEGE & KIRORIMAL COLLEGE, DELHI UNIVERSITY, 1984-85; RESEARCH ASSOCIATE DEPT. OF PHYSICS & ASTROPHYSICS, DELHI UNIVERSITY, 1985-87; IN CHARGE & SENIOR PROGRAMMER, DELHI UNIVERSITY, 1987-89; SCIENTIST C, C.S.I.R. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : SYSTEMS DESIGN & SOFTWARE DEVELOPMENT.

VISITED : U.S.A..

PUBLICATIONS & PATENTS : RES. PAPERS - 18, OTHERS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 13, TEACHING - 7, COMPUTER PROCESSING - 17.

73

MISS SUSHILA KHILNANI; (B. JULY 29, 1954),

SCIENTIST C, EXTRA MURAL RESEARCH DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.A (HONS) MATHEMATICS - DELHI '73; M.A OPERATIONAL RESEARCH - DELHI ' 75;

SPECIALIZATIONS : DATA BASE MANAGEMENT.

EXPERIENCE : J.S.A., SCIENTIST B AND SCIENTIST C, I.I.P., 1977-88; (ALSO FELLOWSHIP, U.S.A., 1981); SCIENTIST C, C.S.I.R. SINCE MAY, 1988.

PRESENT ACTIVITIES : COMPUTER PROGRAMMING.

LANGUAGES : SINDHI, HINDI, ENGLISH.

VISITED : U.S.A..

PUBLICATIONS & PATENTS : RES PAPERS - 5, TECH REPORTS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROGRAMMING - 13.

74

SHRI K B KUMAR; (B. OCTOBER 19, 1935),

EXECUTIVE ARCHITECT (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : NATIONAL DIPLOMA IN ARCHITECTURE - DELHI '65.

SPECIALIZATIONS : HOUSING AND PLANNINC OF R & D BUILDINGS.

EXPERIENCE : JUNIOR DRAUGHTSMAN, SENIOR DRAUGHTSMAN AND PLANNING ASSISTANT, JUNIOR ARCHITECT (B) AND ASSISTANT EXECUTIVE ARCHITECT (B), C.S.I.R, 1960-86; (ALSO ASSISTANT DIRECTOR, D.D.A., DELHI,

1976-79); EXECUTIVE ARCHITECT (C), C.S.I.R. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : PLANNING AND DESIGN OF HOUSES.

LANGUAGES : HINDI, BENGALI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 20, PLANNING - 20, CONSTN. - 30.

75

DR SUDEEP KUMAR; (B. JULY 1, 1959),

SCIENTIST C, TECHNOLOGY UTILIZATION DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : M.SC. BOTNAY - JODHPUR '81; PH.D BOTANY - JODHPUR '84.

SPECIALIZATIONS : WEED CONTROL & ARID ECOSYSTEMS; TECHNOLOGY MANAGEMENT MARKETING & INDUSTRIAL LIAISON; SCIENCE EDITING.

EXPERIENCE : SCIENTIST B, RRL JORHAT, 1984-88; SCIENTIST B, C.S.I.R., 1988; SCIENTIST C, C.S.I.R. SINCE APRIL, 1988

PRESENT ACTIVITIES : TECHNOLOGY MANAGEMENT & MARKETING; INDUSTRIAL LIAISON, LABORATORY COORDINATION.

LANGUAGES : HINDI, ENGLISH.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECH REPORTS - 8, CHAPTER IN A BOOK - 1, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 4, R&D MGMT - 6, TECHNO-ECO SURVEY - 3, TECH. TRANSFER - 6, EDITING - 8.

76

MRS C B LAKSHMI; (B. SEPTEMBER 5, 1956),

SCIENTIST C, MISSION CELL, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.TECH. CHEMICAL ENGINEERING - OSMANIA '79; M.TECH. CHEMICAL ENGINEERING - OSMANIA '81.

SPECIALIZATIONS : MEMBRANE TECHNOLOGY; FUEL QUALITY; FEASIBILITY STUDIES; ORGANISATION OF TRAINING PROGRAMMES; PROJECT PLANNING & MANAGEMENT UNDER OILSEEDS MISSION.

EXPERIENCE : LECTURER, LOYOLA ACADEMY, SECUNDERABAD, 1982-83; SCIENTIST B, R.R.L., HYDERABAD, 1983-84; ENGINEER (B), I.I.P., DELHI, 1984-88; SCIENTIST B, C.S.I.R., 1988-89; SCIENTIST C, C.S.I.R. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : PLANNING CO-ORDINATION AND MONITORING OF VAROUS PROJECTS UNDER OILSEED MISSION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH REPORTS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 2, CONSULTANCY - 2, OPERATION & TESTING - 1, TEACHING - 1.

77

SHRI R D MADAN; (B. OCTOBER 23, 1936),

EXECUTIVE ENGINEER (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : A.M.I.E. CIVIL - INSTITUTION OF ENGINEERS (INDIA) '71.

SPECIALIZATIONS : PUBLIC HEALTH ENGINEERING.

EXPERIENCE : CIVIL OVERSEER, P.W.D., PUNJAB, 1958-64; CIVIL OVERSEER AND CIVIL ENGINEER (A) AND ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R., 1964-88; EXECUTIVE ENGINEER (C), C.S.I.R. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : MAINTENANCE OF CSIR SECRETARIATE BUILDING; CONSTRUCTION.

LANGUAGES : HINDI, ENGLISH, URDU.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTN. - 18, MAINTENANCE - 3.

78

SHRI INDER JIT MAHAJAN; (B. AUGUST 16, 1942),

EXECUTIVE ARCHITECT (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : GOVT. DIPLOMA IN ARCHITECTURE - MAHARASHTRA STATE '65; FINAL DIPLOMA IN ARCHITECTURE - BOARD OF TECHNICAL EDUCATION, MAHARASTRA '67.

SPECIALIZATIONS : PLANNING AND BUILDING DESIGN.

EXPERIENCE : JUNIOR DRAUGHTSMAN, N.B.C.C. LTD., 1961-62; JUNIOR DRAUGHTSMAN, SENIOR DRAUGHTSMAN AND SENIOR ARCHITECTURAL ASSISTANT AND ASSISTANT ARCHITECH (B), C.S.I.R., 1962-87; EXECUTIVE ARCHITECT (C), C.S.I.R. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : DESIGNING & DETAILING OF VARIOUS TYPES OF BUILDINGS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 21.

79

SHRI VIJAY KUMAR MONGA; (B. JANUARY 28, 1946),

EXECUTIVE ARCHITECT (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN DRAFTSMANSHIP (CIVIL) - I.T.I., PUSA, NEW DELHI '64; NATIONAL DIPLOMA IN ARCHITECTURE - SCHOOL OF PLANNING AND ARCHITECTURE, NEW DELHI '73.

SPECIALIZATIONS : ARCHITECTURE; PLANNING AND BUILDING DESIGN.

EXPERIENCE : JUNIOR DRAFTSMAN, SENIOR DRAFTSMAN, SENIOR ARCHITECTURAL ASSISTANT AND ASSISTANT EXECUTIVE ARCHITECT (B), C.S.I.R., 1967-87; EXECUTIVE ARCHITECT (C), C.S.I.R. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : DESIGN, PLANNING AND CONSTRUCTION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, PLANNING AND CONSTRUCTION - 23.

80

SHRI G S PASRICHA; (B. AUGUST 24, 1940),

EXECUTIVE ENGINEER (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.A. - DELHI '62; DIPLOMA IN CIVIL ENGINEERING - DIRECTORATE OF TECHNICAL EDUCATION, DELHI '59.

SPECIALIZATIONS : CIVIL CONSTRUCTION; PREPARATION OF ESTIMATES AND TENDERS.

EXPERIENCE : ENGINEER-IN-CHARGE, M/S. DIWAN CHAND ENGINEERS & CONTRACTORS, NEW DELHI, 1959-61; JUNIOR ENGINEER, CIVIL ENGINEER (A) ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R., 1961-88; EXECUTIVE ENGINEER (C), C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : CIVIL CONSTRUCTION AND PREPARATION OF ESTIMATES & TENDERS FOR C.S.I.R. RESIDENTIAL HOUSING SCHEMES.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION AND MAINTENANCE - 10, PREPARATION OF ESTIMATES AND TENDERS - 18.

81

MISS GOPI RANGLANI; (B. MAY 12, 1944),

SCIENTIST CI, HUMAN RESOURCE DEVELOPMENT GROUP, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '63.

SPECIALIZATIONS : UTILISATION OF S & T MANPOWER RESOURCES.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.R., 1965-86; SCIENTIST CI, C.S.I.R. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : UTILIZATION OF S & T MANPOWER RESOURCES; SCIENTIFIC ABSTRACTING.

LANGUAGES : HINDI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : ARTICLE - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : UTILISATION OF S & T MANPOWER - 25.

82

DR D YOGESWARA RAO; (B. FEBRUARY 9, 1955),

SCIENTIST C, COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : B.SC. - ANDHRA '75; M.SC. CHEMISTRY - ANDHRA '77; PH.D. CHEMISTRY - I.I.T., BOMBAY '83.

SPECIALIZATIONS : CATALYSIS; PROCESS DEVELOPMENT; TECHNOLOGY MANAGEMENT; TECHNOLOGY TRANSFER.

EXPERIENCE : RESEARCH CHEMIST, M/S HINDUSTAN LEVERS LTD., RESEARCH CENTRE, 1982-83; SENIOR RESEARCH CHEMIST - M/S STANDARD ALKALI R & D CENTRE, 1983-88; SCIENTIST C, C.S.I.R. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : TECHNOLOGY MANAGEMENT, TECHNOLOGY TRANSFER, S&T POLICY, SAFETY IN LABORATORY.

LANUGAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REP. - 7, PROCESS DEV. - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 7, TECHNOLOGY MGMT - 5, TECHNOLOGY TRANSFER - 5.

83

SHRI M K DHIRENDRA RAO; (B. FEBRUARY 22, 1953),

SCIENTIST C, INTERNATIONAL SCIENTIFIC COLLABORATION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - BOMBAY '73; M.SC. BIOPHYSCIS - BOMBAY '76; CERTIFICATE IN FORTRAN IV PROGRAMMING - C.S.I. '84; CERTIFICATE IN DBASE III & LOTUS 1-2-3 - C.S.I. '87; ASSOCIATE IN DOCUMENTATION & REPROGRAPHY - INSDOC '78;

SPECIALIZATIONS : SCIENTIFIC DOCUMENTATION; R&D PROJECT MANAGEMENT; INTERNATIONAL SCIENTIFIC COLLABORATION; COMPUTERISED DATA BASE MANAGEMENT.

EXPERIENCE : LIBRARY ASSISTANT., TATA INSTITUTE OF FUNDAMENTAL RESEARCH, BOMBAY, 1978; S.T.A., SCIENTSIT A, SCIENTIST B AND SCIENTIST C, N.P.L., 1978-89; SCIENTIST C, C.S.I.R. SINCE MARCH, 1989.

84

SHRI A K ROY; (B. DECEMBER 15, 1937),

SCIENTIST C, COMPUTER DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : M.SC. MATHEMATICS - LUCKNOW '60; CERTIFICATE IN FORTRAN PROGRAMMING - I.I.T., DELHI '75; CERTIFICATE IN PROGRAMMING AND APPLICATION OF ELECTRONIC COMPUTERS - I.S.I., CALCUTTA '76.

SPECIALIZATIONS : MATHEMATICS; COMPUTER PROGRAMMING.

EXPERIENCE : COMPUTER, C.D.R.I., LUCKNOW, 1960-63; J.T.A., S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.R., 1963-87; (ALSO TRAINING IN INDUSTRIAL DEVELOPMENT WITH REFERENCE TO TECHNOLOGY AND TECHNOLOGY CHOICE, U.K., 1981); SCIENTIST C, C.S.I.R. SINCE FEBRUARY, 1987; (ATTENDED UNIDO WORKSHOP ON INDUSTRIAL APPLICATIONS OF PERSONAL COMPUTERS, CZECHOSLOVAKIA, 1989).

PRESENT ACTIVITIES : COMPUTER APPLICATIONS; SOFTWARE DEVELOPMENT FOR CREATING DATA BASE ON PC AND ALSO ON MINI COMPUTER SYSTEM; CONDUCTING TRAINING PROGRAMMES IN COMPUTER APPLICATIONS.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.K, CZECHOSLOVAKIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : STATISTICAL ANALYSIS - 3, PLANNING - 12, COMPUTER APPLICATIONS - 15.

85

SHRI S K SABHARWAL; (B. DECEMBER 1, 1937),

EXECUTIVE ARCHITECT (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : NATIONAL DIPLOMA IN ARCHITECTURE - BOARD OF TECHNICAL EDUCATION, DELHI '67.

SPECIALIZATIONS : ARCHITECTURE.

EXPERIENCE : JUNIOR DRAFTSMAN, C.P.W.D., NEW DELHI, 1961-66; SENIOR DRAFTSMAN, ARCHITECTURAL ASSISTANT AND ASSISTANT EXECUTIVE ARCHITECT, C.S.I.R., 1966-88; EXECUTIVE ARCHITECT (C), C.S.I.R. SINCE FEBRUARY, 1988.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 32.

86

SHRI R K SAHAYA; (B. MARCH 13, 1942),

INFORMATION OFFICER (C), PUBLIC RELATIONS & INFORMATION UNIT, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - PATNA '64; M.SC. BOTANY - RANCHI '67; SPECIALISED COURSE IN GOVT MAGAZINES, INDIAN INSTITUTE OF MASS COMMUNICATION, NEW DELHI.

SPECIALIZATIONS : PLANT PATHOLOGY, SCIENCE WRITING, EDITING AND TRANSLATION; SCIENCE WRITING IN HINDI; INFORMATION DISSEMINATION.

EXPERIENCE : ASSISTANT DIRECTOR, BOOK PRODUCTION CELL IN BOTANY, RANCHI UNIVERSITY, 1968-69; SCIENCE TRANSLATOR, SCIENTIST A AND ASSISTANT INFORMATION OFFICER (B), C.S.I.R., 1972-86; INFORMATION OFFICER (C), C.S.I.R. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : INFORMATION DISSEMINATION; PUBLIC RELATIONS; SCIENCE WRITING, EDITING AND TRANSLATION; EDITOR OF MONTHLY WALL NEWS PAPER OF C.S.I.R. IN HINDI; EDITOR, ANVESHAN SANDESH.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES AND RADIO & T.V TALKS - 500.

PROFESSIONAL EXPERIENCE(IN YEARS) : SCIENCE TRANSLATION /WRITING- 22; INFORMATION DISSEMINATION - 19.

87

SHRI S R SANTRA; (B. MAY 25, 1942),

EXECUTIVE ENGINEER (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.E. CIVIL ENGINEERING - JADAVPUR '66; M.TECH. CIVIL ENGINEERING - I.I.T., KHARAGPUR '68.

SPECIALIZATIONS : STRUCTURAL ENGINEERING; SOIL MECHANICS AND FOUNDATION ENGINEERING.

EXPERIENCE : ASSISTANT ENGINEER, M.N. DASTUR AND CO, PVT. LTD., CALCUTTA, 1968-69; CIVIL ENGINEER (A), C.S.I.R., 1969-81; (ALSO TRAINING IN COMPUTER PROGRAMMING, PERT CPM, NPL, 1975; AND TRAINING COURSE FOR ENGINEERS IN INNOVATIVE MATERIALS, PLANNING & CONSTRUCTION TECHNOLOGY, C.B.R.I., 1990); EXECUTIVE ENGINEER (C), C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : STRUCTURAL DESIGNING OF RESIDENTIAL SCHOOLS, LABORATORY BUILDINGS AND WATER TANKS.

LANGUAGES : BENGALI, HINDI, SANSKRIT, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN. - 21, CONSTN - 2, PLANNING - 21.

88

MRS REKHA SHARMA; (B. APRIL 21, 1951),

SCIENTIST C, TECHNOLOGY UTILISATION DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '72; M.SC. CHEMISTRY - MEERUT '76; ENTRY LEVEL CERTIFICATE IN COMPUTER PROGRAMMING (BASIC) - N.I.I.T., NEW DELHI '86.

SPECIALIZATIONS : COMPUTER PROGRAMMING; INFORMATION DISSEMINATION.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST B, C.S.I.R., 1978-89; SCIENTIST C, C.S.I.R. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : COMPUTERISATION OF INFORMATION ON TECHNOLOGY MISSION; INFORMATION DISSEMINATION ON S & T DEVELOPMENT; RURAL DEVELOPMENT DEALING WITH TRAINING PROGRAMME.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPER - 2, TECH. REPORT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROGRAMMING - 9.

89

DR AMIN AFNNAD SIDDIQI; (B. JULY 2, 1944),

SCIENTIST C, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : M.SC. ORGANIC CHEMISTRY - A.P.S. UNIVERSITY '71; M. PHIL. CHEMISTRY - A.M.U. '74; PH.D. CHEMISTRY - A.M.U. '76.

SPECIALIZATIONS : SYNTHESIS OF NITROGENOUS COMPOUNDS; R & D PLANNING.

EXPERIENCE : POOL OFFICER (C.S.I.R.), ALIGARH MUSLIM UNIVERSITY, 1978-80; SCIENTIST C, C.S.I.R. SINCE SEPTEMBER, 1982.

PRESENT ACTIVITIES : R & D PLANNING.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 13.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 11, TEACHING - 3, PLANNING - 8.

90

SHRI B K SIKKA; (B. APRIL 1, 1937),

EXECUTIVE ARCHITECT (C), ENGINEERING SERVICES DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : NATIONAL DIPLOMA IN ARCHITECTURE - SCHOOL OF PLANNING & ARCHITECTURE, DELHI '63.

SPECIALIZATIONS : HOUSING; PLANNING OF R & D BUILDINGS.

EXPERIENCE : DRAUGHTSMAN, C.P.W.D., NEW DELHI, 1954-60; SENIOR ARCHITECTURAL DRAUGHTSMAN, SENIOR ARCHITECTURAL ASSISTANT AND JUNIOR ARCHITECT (B), C.S.I.R., 1960-81; EXECUTIVE ARCHITECT (C), C.S.I.R. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : PLANNING OF R & D BUILDINGS; EXECUTION OF CONSTRUCTION WORKS.

LANGUAGES : HINDI, URDU, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 30, PLANNING - 30, CONSTN. - 30, TECH. DEVELOPMENT - 30, TECHNOLOGY TRANSFER - 20, ADMN - 18.

91

MRS MANJU KULDEV SINGH; (B. FEBRUARY 23, 1945),

EXECUTIVE ARCHITECT (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.ARCH. - DELHI '67.

EXPERIENCE : ARCHITECTURAL ASSISTANT (A) AND ASSISTANT EXECUTIVE ARCHITECT (B), C.S.I.R., 1967-88; EXECUTIVE ARCHITECT, C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : ARCHITECTURAL SERVICES.

LANGUAGES : PUNJABI, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : ARCHITECTURAL SERVICES - 26.

92

SHRI SARJIT SINGH; (B. FEBRUARY 5, 1939),

EXECUTIVE ENGINEER (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - DIRECTORATE OF TECHNICAL EDUCATION, PUNJAB '61; A.M.I.E. CIVIL - INSTITUTION OF ENGINEERS (INDIA) '77.

SPECIALIZATIONS : R C C DESIGN.

EXPERIENCE : JUNIOR ENGINEER(B), AND ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R., 1961-88; EXECUTIVE ENGINEER (C), C.S.I.R. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : R.C.C. DESIGN.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 27.

93

DR R K SRIVASTAVA; (B. AUGUST 1, 1953),

SCIENTIST C, COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

94

SHRI S K THUKRAL; (B. NOVEMBER 14, 1939),

EXECUTIVE ENGINEER (C), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - LUCKNOW '59.

SPECIALIZATIONS : STRUCTURAL DESIGN.

EXPERIENCE : SECTIONAL OFFICER, P.W.D., PUNJAB, 1959-61; OVERSEER, CIVIL ENGINEER (A) AND ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R., 1961-88; EXECUTIVE ENGINEER (C), C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : DESIGN OF CIVIL STRUCTURES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 17, CONSTN. - 25, MAINTENANCE - 2.

95

SHRI A K VERMA; (B. DECEMBER 1, 1953),

SCIENTIST C, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. '72; M.SC. PHYSICS '74.

SPECIALIZATIONS : SCIENCE & TECHNOLOGY PLANNING AND MANAGEMENT; MINE VENTILATION SYSTEMS.

EXPERIENCE : J.R.F., S.S.A. AND SCIENTIST B, C.M.R.S., DHANBAD, 1977-86; (ALSO RESEARCH OFFICER (S & T), ON DEPUTATION, PLANNING COMMISSION, GOVERNMENT OF INDIA, 1982-85); SCIENTIST C, C.S.I.R. SINCE FEBRUARY, 1986; (AGAIN ON DEPUTATION TO PLANNING COMMISSION AS SENIOR RESEARCH OFFICER (S&T) SINCE DECEMBER, 1986).

PRESENT ACTIVITIES : SCIENCE & TECHNOLOGY PLANNING AND MANAGEMENT.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D PLANNING AND MANAGEMENT - 7.

96

SHRI SANTOSH K VERMA; (B. AUGUST 5, 1946),

SCIENTIST C, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC.(AG.) - UDAIPUR '66; P.G. DIPLOMA IN FRUIT & VEGETABLE TECHNOLOGY - LUCKNOW '67; M.SC. FOOD TECHNOLOGY - MYSORE '77.

SPECIALIZATIONS : FRUIT AND VEGETABLE TECHNOLOGY; CEREALS, LEGUMES AND OIL SEEDS TECHNOLOGY; PROTEIN FOODS TECHNOLOGY; R & D PROJECT MANAGEMENT.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, R.R.L., JAMMU, 1968-81; SCIENTIST B, C.S.I.R., 1981-86; SCIENTIST C, C.S.I.R. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : R & D PROJECT MANAGEMENT.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 13, TECHNICAL DEVELOPMENT - 13, PILOT PLANT - 13, R & D PLANNING & MANAGEMENT - 5, PLANNING - 2.

97

MISS N R VIMALA; (B. JUNE 10, 1948),

SCIENTIST C, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : M.A. ECONOMICS - DELHI '71; CERTIFICATE IN INDUSTRIAL MANAGEMENT, MINISTRY OF INDUSTRIAL DEVELOPMENT NEW DELHI, '72; CERTIFICATE IN INVESTMENT PLANNING & PROJECT EVALUATION - INSTITUTE OF ECONOMIC GROWTH, NEW DELHI '79; CERTIFICATE IN INVESTMENT, PROJECT ANALYSIS AND APPRAISALS, N.I.T.I.E., BOMBAY '86.

SPECIALIZATIONS : INDUSTRIAL ECONOMICS; R & D MANAGEMENT.

EXPERIENCE : J.T.A., S.S.A. AND SCIENTIST B, C.S.I.R., 1974-87; SCIENTIST C, C.S.I.R. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : R & D MANAGEMENT AND PLANNING, MONITORING AND EVALUATION

LANGUAGES : TAMIL, HINDI, ENGLISH

PUBLICATIONS & PATENTS : RES. PAPERS - 3, APP. RES. - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MANAGEMENT - 16.

98

SHRI S C VOHRA; (B. SEPTEMBER 7, 1943),

SCIENTIST C, TECHNOLOGY UTILISATION DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE IN DRAUGHTSMANSHIP - I.T.I., PATIALA '61; MASTER IN COMPUTER OPERATIONS & APPLICATIONS - B.I.T.S., PILANI '91.

SPECIALIZATIONS : MACHINE TOOL DESIGN; DATA COMPILATION AND ANALYSIS.

EXPERIENCE : SENIOR DRAUGHTSMAN-CUM-CHIEF INSPECTOR, M/S DAULAT INDUSTRIAL CORPORATION (P) LTD, LUDHIANA, 1961-65; ASSISTANT DRAUGHTSMAN, PROTOTYPE PRODUCTION AND TRAINING CENTRE, NEW DELHI, 1965-66; J.T.A., S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.R., 1966-86; SCIENTIST C, C.S.I.R. SINCE APRIL, 1986.

PRESENT ACTIVITIES : TECHNOLOGY UTILISATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : PATENTS TAKEN - 1, PROCESSES DEVELOPED - 1.

AWARDS & DISTINCTIONS : INVENTIONS PROMOTION BOARD AWARD FOR DEVIATION DISC, 1975.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 6, QUALITY CONTROL - 3, TECHNOLOGY UTILISATION - 18, INFORMATION STORAGE - 5.

99

SHRI K L ANAND; (B. MAY 5, 1938),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.E., CIVIL ENGINEERING - DELHI '67.

EXPERIENCE : CIVIL ENGINEER, PRIVATE FIRM, 1967-70; JUNIOR ENGINER, C.S.I.R., 1970-81; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : CIVIL ENGINEERING.

LANUGAGES : HINDI,ENGLISH.

VISITED : LIBYA.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 18, PLANNING - 8.

100

SHRI M ANTHONY; (B. AUGUST 9, 1944),

ASSISTANT EXECUTIVE ENGINEER (B), COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING, DTE. OF TECH. EDN. - MADRAS '66.

EXPERIENCE : JUNIOR ENGINEER, JUNIOR ENGINEER GR (II), ASSISTANT ENGINEER AND ASSISTANT EXECUTIVE ENGINEER, N.G.R.I., 1970-88; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : CONSTRUCTION AND MAINTENANCE OF STAFF QUARTERS.

LANGUAGES : TAMIL, ENGLISH, HINDI, TELVGU.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 22, MAINTENANCE - 22.

101

SHRI S M ARORA; (B. SEPTEMBER 9, 1938),

TECHNICAL OFFICER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN DRAFTSMANSHIP - BOARD OF TECH. EDN.- DELHI '59.

SPECIALIZATIONS : ARCHITECTURAL DESIGNING/DRAFTING.

EXPERIENCE : JUNIOR DRAFTSMAN AND SENIOR DRAFTSMAN, C.S.I.R., 1964-78; TECHNICAL OFFICER (BI), C.S.I.R. SINCE FEBRUARY, 1988.

LANGUAGES : HINDI, ENGLISH, PUNJABI, URDU.

102

SHRI V S BHATI; (B. SEPTEMBER 19, 1962),

SCIENTIST B, HUMAN RESOURCE DEVELOPMENT GROUP, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC - DELHI '84; M.SC OPERATIONAL RESEARCH - DELHI '86.

SPECIALIZATIONS : COMPUTER MANAGEMENT; OPERATIONAL RESEARCH.

EXPERIENCE : J.T.A., C.F.B., NEW DELHI, 1988-91; SCIENTIST B, C.S.I.R. SINCE FEBRUARY, 1991.

LANGUARGE : HINDI, ENGLISH.

103

DR(MISS) CHETNA BRAT; (B. SEPTEMBER 16, 1949),

SCIENTIST B, PLANNING DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - GORAKHPUR '67; M.SC. ZOOLOGY - GORAKHPUR '69; PH.D. ZOOLOGY - GORAKHPUR '77.

SPECIALIZATIONS : INSECTS EMBRYOLOGY; CELL BIOLOGY; PROJECT PLANNING AND EVALUATION.

EXPERIENCE : J.R.F., P.D.F. AND RESEARCH ASSOCIATE, C.S.I.R., NEW DELHI, 1978-84; SCIENTIST B, C.S.I.R. SINCE MAY, 1984.

PRESENT ACTIVITIES : PLANNING, MONITORING AND EVALUATION OF PROJECTS OF BIOLOGICAL GROUP OF C.S.I.R. LABORATORIES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPER - 1, ARTICLES - 3, ABSTRACTS -3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, R & D MGMT - 4, PLANNING - 6.

104

SHRI M D BUDHIRAJA; (B. JANUARY 1, 1937),

ASSISTANT EXECUTIVE ARCHITECT (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN DRAFTSMANSHIP (CIVIL) - PUNJAB STATE TECH. EDUCATION BOARD '59; GOVT DIPLOMA IN ARCHITECTURE - MAHARAHTRA STATE '68.

SPECIALIZATIONS : ARCHITECTURE; PLANNING AND BUILDING DESIGN.

EXPERIENCE : SR. DRAFTSMAN AND ACHITECTURAL ASST., C.S.I.R., 1962-81; ASSISTANT EXECUTIVE ARCHITECT (B), C.S.I.R. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : DESIGN, PLANNING AND CONSTRUCTION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN, PLANNING AND CONSTRUCTION - 25.

105

SHRI A CHAKRABARTI; (B. APRIL 4, 1961),

SCIENTIST B, INTERNATIONAL SCIENTIFIC COLLABORATION UNIT, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.E. CIVIL - JADAVPUR '83; M.TECH. STRUCTURAL ENGINEERING - JADAVPUR '85.

SPECIALIZATIONS : STRUCTURAL ENGINEERING; INTERNATIONAL SCIENTIFIC COLLABORATION.

EXPERIENCE : ASSISTANT ENGINEER, TATA CONSULTING ENGINEERS, HYDERABAD, 1985-87; 1985-87; SCIENTIST B, C.S.I.R. SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : INTERNATIONAL SCIENTIFIC COLLABORATION.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : THAILAND, VIETNAM.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER APPLICATION RELATING TO STRUCTURS - 2, INTERANATIONAL SCIENTIFIC COLLABORATION - 3.

106

SHRI V A CHANDRASEKHARAN; (B. FEBRUARY 11, 1941),

PROGRAMMER (B), COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) - KERALA '65; P.G DIPLOMA IN PROGRAMMING & SYSTEM ANALYSIS - NEW DELHI '86.

SPECIALIZATIONS : SOFTWARE DEVELOPMENT; SYSTEMS & SOFTWARE MANAGEMENT.

EXPERIENCE : COMPUTER AND J.T.A., N.P.L., NEW DELHI 1965-79; S.D.A., INSDOC, 1979-87; PROGRAMMING ASSISTANT AND SCIENTIST A, C.S.I.R., 1987-89; PROGRAMMER (B), C.S.I.R. SINCE AUGUST, 1989.

PRESENT ACTIVITIES : SOFTWARE DEVELOPMENT; SOFTWARE MANAGEMENT.

LANUGAGES : MALAYALAM, HINDI, BENGALI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1, ARTICLES - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROCESSING - 15, EDITING - 4.

107

SHRI B K CHHABRA; (B. OCTOBER 21, 1941),

SCIENTIST BI, TECHNOLOGY UTILISATION DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : INTERMEDIATE SCIENCE; NATIONAL TRADE CERTIFICATE IN MECHANICAL DRAUGHTSMANSHIP, DELHI '60; CERTIFICATE IN INTENSIVE TRAINING IN MECHANICAL DRAUGHTSMANSHIP - P.T.C., OKHLA, NEW DELHI '62.

SPECIALIZATIONS : FABRICATION AND DRAFTING OF CHEMICAL PLANT EQUIPMENT; DESIGN, FABRICATION AND DRAFTING OF MATERIAL HANDLING MACHINES/EQUIPMENT; TECHNOLOGY TRANSFER.

EXPERIENCE : MECHANICAL DRAUGHTSMAN, M.C. ENGINEERING CO., NEW DELHI, M/S ATLAS ENGINEERING WORKS, DELHI AND M/S DIDWANIA BROS. (P) LTD., DELHI, 1960-61; SENIOR MECHANICAL DRAUGHTSMAN, INDUDYOG CO. (P) LTD., 1962-64; MECHANICAL DRAUGHTSMAN, J.T.A., S.T.A. AND SCIENTIST A, C.S.I.R., 1964-76; SCIENTIST BI, C.S.I.R. SINCE APRIL, 1987.

PRESENT ACTIVITIES : SCRUTINISATION OF INDUSTRIAL LICENSING AND FOREIGN COLLABORATION APPLI-

CATIONS; TECHNOLOGY TRANSFER;ATTENDING OF VARIOUS INDUSTRIAL APPROVAL COMMITTEE MEETINGS.

LANGUAGES : PUNJABI, HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : PATENTS TAKEN - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 3, PILOT PLANT - 1, TECHNOLOGY TRANSFER - 13, DESIGN DRAFTING - 10,INFORMATION STORAGE - 5, INDUSTRIAL LICENSING - 5, FOREIGN COLLABORATION - 10.

108

SHRI ASHOK KUMAR DEWAN; (B. MARCH 22, 1942),

TECHNICAL OFFICER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : NATIONAL CERTIFICATE IN DRAFTSMAN, MINISTRY OF LABOUR AND EMPLOYMENT '63; ADVANCED DRAFTSMAN MECHANICAL COURSE - P.T.C., NEW DELHI '66; NATIONAL CERTIFICATE IN SUPERVISION - N.P.C. '73; SEC (A) OF A.M.I.E. - INSTITUTION OF ENGINEERS '69.

SPECIALIZATIONS : DRAFTSMANSHIP.

EXPERIENCE : SENIOR INSPECTOR, ESCORTS, 1966-68; SENIOR DRAFTSMAN AND TECHNICAL OFFICER (A), C.S.I.R., 1968-87; TECHNICAL OFFICER (BI), C.S.I.R. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : STRUCTURAL DRAWINGS OF VARIOUS PROJECTS OF C.S.I.R. LABORATORIES/INSTITUTES.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 25, QUALITY CONTROL - 2.

109

SHRI R K GOEL; (B. OCTOBER 12, 1938),

TECHNICAL OFFICER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : HIGHER SECONDARY - DELHI BOARD '58; DIPLOMA IN DRAFTSMANSHIP, ROORKEE '60.

EXPERIENCE : DRAFTSMAN AND TECHNICAL OFFICER (A), E.S.D., C.S.I.R., 1963-88; TECHNICAL OFFICER (BI), C.S.I.R. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : ELECTRICAL LAYOUT DRAWINGS.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 28.

110

SHRI B R GOYAL; (B. OCTOBER 15, 1944),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - PUNJAB STATE BOARD OF TECHNICAL EDUCATION '63.

SPECIALIZATIONS : STAFF QUARTERS CONSTRUCTION.

EXPERIENCE : WORK SUPERVISOR, N.B.C.C., 1963-64; JUNIOR ENGINEER AND ASSISTANT ENGINEER, 1964-88; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : SUPERVISION OF CONSTRUCTION PROJECTS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 21, PLANNING - 9.

111

MRS ASHA GULIANI; (B. OCTOBER 2, 1944),

TECHNICAL OFFICER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : HIGHER SECONDARY - DELHI BOARD '60; DIPLOMA IN CIVIL DRAFTSMANSHIP - I.T.I., DELHI '62.

SPECIALIZATIONS : ARCHITECTURE; DRAFTING.

EXPERIENCE : JUNIOR DRAFTSMAN AND SENIOR DRAFTSMAN, C.S.I.R., 1964-88; TECHNICAL OFFICER (BI), C.S.I.R. SINCE MARCH, 1988.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

112

SHRI AJAY KUMAR GUPTA; (B. JULY 1, 1963),

SCIENTIST B, COMPUTER DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '83; M.C.A. COMPUTER SCIENCE & APPLICATIONS - A.M.U. '86.

SPECIALIZATIONS : COMPUTER SCIENCE.

EXPERIENCE : SENIOR PROGRAMMER, LIWARE COMTECH SERVICES, 1986-87; SCIENTIST B, C.S.I.R. SINCE JUNE, 1987.

PRESENT ACTIVITIES : SOFTWARE DESIGN & DEVELOPMENT, FACULTY MEMBER FOR TRAINING PROGRAMMES.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER SCIENCE - 6.

113

MRS ARCHANA GUPTA; (B. FEBRUARY 7, 1956),

SCIENTIST B, EXTRA MURAL RESEARCH DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) ZOOLOGY - PUNE '75; M.SC EMBRYOLOGY - PUNE '77.

SPECIALIZATIONS : ENTOMOLOGY; EXTRA MURAL RESEARCH.

EXPERIENCE : S.L.A. AND J.S.A. N.C.L, PUNE, 1976-83; J.T.A AND S.T.A. C.S.I.R., 1983-86; SCIENTIST B, C.S.I.R. SINCE APRIL, 1986.

PRESENT ACTIVITIES : EXTRAMURAL RESEARCH.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES PAPERS - 2, TECH REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, TECH. DEV. - 4, R & D MGMT. - 6.

114

SHRI PARMOD KUMAR GUPTA; (B. NOVEMBER 10, 1960),

SCIENTIST B, COMPUTER DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '81; M.SC. OPERATIONAL RESEARCH - DELHI '83; DIPLOMA IN ADVANCED COMPUTER PROGRAMMING - I.A.S.R.I. (I.C.A.R.), NEW DELHI '85.

SPECIALIZATIONS : COMPUTER SCIENCE.

EXPERIENCE : SYSTEMS ENGINEER, COMTECH INTERNATIONAL SOFTWARE MANUFACTURERS, NOIDA, U.P., 1986; PROGRAMMER, SOFTEK PVT LTD, DELHI, 1986-87; SCIENTIST B, C.S.I.R. SINCE JULY, 1987.

PRESENT ACTIVITIES : SOFTWARE DEVELOPMENT.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : SYSTEMS ANALYSIS & SOFTWARE DEVELOPMENT - 6.

115

SHRI S HASSAN; (B. NOVEMBER 1, 1940),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - A.M.U. '60; B.E CIVIL ENGINEERING - JAMIA MILLIA ISLAMIA '87.

SPECIALIZATIONS : CIVIL CONSTRUCTION AND PLANNING.

EXPERIENCE : APPRENTICE OVERSEER, P.W.D., U.P 1961-62; WORK MISTRY, MUNICIPAL CORPORATION OF DELHI, 1962; JUNIOR ENGINEER AND ASSISTANT ENGINEER (A), C.S.I.R., 1962-88; (ALSO ASSISTANT ENGINEER, ON DEPUTATION, J.M.I., NEW DELHI, 1972-83); ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : CIVIL CONSRTUCTION AND PLANNING.

LANGUAGES : URDU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 8, MAINTENANCE - 2, PALNNING - 17.

116

SHRI A C KALLA; (B. MARCH 7, 1940),

ASSISTANT EXECUTIVE ARCHITECT (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : ADVANCED COURSE IN ARCHITECTURE - MAHARASHTRA '62.

SPECIALIZATIONS : PLANNING OF R & D BUILDINGS; DESIGN OF BUILDINGS.

EXPERIENCE : ASSISTANT ARCHITECT, M/S MASTER SATHE AND KOTHARI ARCHITECTS, NEW DELHI, 1959-60; ASSISTANT ARCHITECT, HEINZ AND ASSOCIATES, DELHI,1960-62; SENIOR DRAUGHTSMAN, ARCHITECTURAL ASSISTANT, JUNIOR ARCHITECT AND ASSISTANT ARCHITECT, C.S.I.R., 1964-86; ASSISTANT EXECUTIVE ARCHITECT (B), C.S.I.R. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : PLANNING OF R & D BUILDINGS; DESIGN OF BUILDINGS.

LANGUAGES : HINDI, KASHMIRI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 30, CONSTN - 17.

117

SHRI D KANNAN; (B. MAY 22, 1944),

ASSISTANT EXECUTIVE ENGINEER (B), COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI

118

SHRI S K KAPOOR; (B. FEBRUARY 16, 1945),

TECHNICAL OFFICER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : CERTIFICATE IN CIVIL DRAUGHTSMANSHIP - I.T.I. PUSA '64.

EXPERIENCE : TECHNICAL OFFICER (B), C.S.I.R. SINCE APRIL, 1988.

LANGUAGES : HINDI.

119

SHRI H R KHAN; (B. JANUARY 23, 1938),

SCIENTIST B, HUMAN RESOURCE DEVELOPMENT GROUP, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC. - BIHAR '60.

SPECIALIZATIONS : QUALITY CONTROL OF PETROLEUM & PETROLEUM PRODUCTS; MARKET RESEARCH & DATA PROCESSING; TECHNO-ECONOMIC FEASIBILITY STUDIES & MARKET SURVEY; PREPARATION OF RESEARCH SCHEMES AGENDA.

EXPERIENCE : S.L.A., J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, I.I.P., 1962-88; SCIENTIST B, C.S.I.R. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : ASSOCIATING WITH THE PROJECT ON CSIR SCIENTISTS & TECHNICAL PERSONNEL DIRECTORY.

LANUGAGES : URDU, ENGLISH, HINDI, ARABIC, PERSIAN.

PUBLICATIONS & PATENTS : TECH. REPORT - 50.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING QUALITY CONTROL - 8, TECHNO-ECONOMIC SURVEYS - 20.

120

SHIR J C KHANNA; (B. MARCH 16, 1942),

TECHNICAL OFFICER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE IN DRAUGHTSMANSHIP - I.T.I., ROHTAK '62; ADVANCED TRAINING IN DRAUGHTSMANSHIP - P.T.C., OKHALA, '64.

EXPERIENCE : SENIOR DRAUGHTSMAN AND TECHNICAL OFFICER (A), C.S.I.R., 1966-87; TECHNICAL OFFICER (BI), C.S.I.R. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : STRUCTUTAL DETAILING OF BUILDING DRAWING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 10, CONSTRUCTION - 7.

121

SHRI CHETAN KUMAR; (B. MARCH 12, 1959),

SCIENTIST B, COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

122

SHRI D KUMAR; (B. MARCH 3, 1943),

LIBRARY OFFICER (B), HUMAN RESOURCE DEVELOPMENT GROUP, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC, - MEERUT '68; M.A, ECONOMICS, - MEERUT '73; B.LIB SC - SAUGAR ' 79.

SPECIALIZATIONS : LIBRARY AND INFORMATION SCIENCE.

EXPERIENCE : ASSISTANT LIBRARIAN, J S H DEGREE COLLEGE, 1962-63; LIBRARY ASSISTANT, BAREILLY COLLEGE, 1963-64; CATALOGUER, SENIOR LIBRAIAN, S.T.A., LIBRARY OFFICER (A) AND LABRARY OFFICER (B), I.I.P., DEHRADUN, 1964-88; LIBRARY OFFICER (B), C.S.I.R. SINCE MAY, 1988.

PRESENT ACTIVITIES : ORGANISATION OF LIBRARY SERVICES.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : RES PAPERS - 3, TECH. REPORTS - 3, ARTICLES - 2, PROCESSES DEVELOPED - 3, OTHER - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : ORGANIZATION OF SCIENTIFIC & TECHNICAL LIBRARY - 28

123

DR SUDHIR MADAN; (B. NOVEMBER 30, 1950),

SCIENTIST B, EXTRA MURAL RESEARCH DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) MATHEMATICS - DELHI '70; M.SC. OPERATIONS RESEARCH - DELHI '72; PH.D. OPERATIONS RESEARCH (QUEUEING SYSTEMS) - DELHI '79.

SPECIALIZATIONS : OPERATIONAL RESEARCH; QUEUEING THEORY; CYBERNETICS & SYSTEMS.

EXPERIENCE : LECTURER, COLLEGE OF SCIENCE, UNIVERSITY OF SULAIMANIYA, IRAQ, 1978-81; LECTURER, COLLEGE OF SCIENCE, UNIVERSITY OF SALHA - ALDEEN, IRAQ, 1981-83; POOL OFFICER, O.R. UNIT, C.S.I.R., 1984-87; SCIENTIST B , C.S.I.R. SINCE MAY, 1987.

PRESENT ACTIVITIES : SCIENTIFIC INPUTS TO EXTRA MURAL RESEARCH POLICIES.

LANGUAGES : HINDI, ENGLISH, KHURDISH.

VISITED : IRAQ, U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 16, TECH. REPORT - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 3, TEACHING - 5, EDITING - 3.

124

MRS B K MATHIARU; (B. JUNE 1, 1945),

TECHNICAL OFFICER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ARCHITECTURAL ASSISTANTSHIP - BOARD OF TECHNICAL EDUCATION, DELHI '65.

EXPERIENCE : SENIOR DRAFTSMAN AND TECHNICAL OFFICER (A), C.S.I.R., 1966-88; TECHNICAL OFFICER (B), C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : ARCHITECTURAL SERVICES.

LANGUAGES : PUNJABI, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : ARCHITECTURAL SERVICES - 27.

125

SHRI S S MATHUR; (B. NOVEMBER 30, 1940),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

126

SHRI C T MULCHANDANI; (B. NOVEMBER 20, 1935),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - BOMBAY'55; A.M.I.E. CIVIL - INSTITUTION OF ENGINEERS (INDIA) '61.

SPECIALIZATIONS : PRESTRESSED CONCRETE; CONSTRUCTION AND MAINTENANCE OF BUILDINGS AND ROADS.

EXPERIENCE : SECTIONAL OFFICER, C.P.W.D., NEW DELHI 1955-61; CIVIL ENGINEER (A), C.S.I.R., 1961-81; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : CONSTRUCTION, MAINTENANCE AND PREPARATION OF ESTIMATES OF CIVIL STRUCTURES.

LANGUAGES : HINDI, SINDHI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION & MAINTENANCE - 19, PREPARATION OF ESTIMATES AND PLANNING - 35.

127

SHRI S R NAGARAJ; (B. MARCH 13, 1936),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R., NEW DELHI (POSTED AT N.A.L., BANGALORE).

QUALIFICATIONS : DIPLOMA IN CIVIL ENGNEERING - KARNATAKA '55; A.M.I.E. CIVIL - INSTITUTION OF ENGINEERS, INDIA '62.

SPECIALIZATIONS : BUILDING CONSTRUCTION.

EXPERIENCE : CIVIL ENGINEER (A), C.S.I.R., 1964-81; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : BUILDING CONSTRUCTION.

LANGUAGES : KANNADA, HINDI, TELUGU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION-23.

128

MRS VIJAY LAKSHMI NAIR; (B. OCTOBER 29, 1939),

SCIENTIST BI, INRIST CENTRE, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.A. (HONS) HISTORY - DELHI '59; M.A. HISTORY - DELHI '61.

SPECIALIZATIONS : UTILISATION OF S & T MANPOWER RESOURCES; EDITING.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST A, C.S.I.R., 1966-81; SCIENTIST BI, C.S.I.R. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : UTILISATION OF S & T MANPOWER RESOURCES; EDITING.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, U.K., REPUBLIC OF NAURU (CENTRAL PACIFIC).

PUBLICATIONS & PATENTS : ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : MANPOWER STUDIES & UTILISATION - 21.

129

SHRI S M NIGAM; (B. MARCH 22, 1935),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - AD-HOC BOARD OF ENGINEERING EDUCATION U.P '58.

SPECIALIZATIONS : PLANNING AND CONSTRUCTION.

EXPERIENCE : CIVIL OVERSEER, P.W.D., M.P., 1958-59; CIVIL OVERSEER, H.C.C. LTD, 1959-62; CIVIL OVERSEER AND ASSISTANT ENGINEER (A), C.S.I.R., 1962-87; ASSITANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE 1987.

PRESENT ACTIVITIES : PLANNING AND CONSTRUCTION.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 31.

130

SHRI BALWANT RAI; (B. AUGUST 20, 1946),

ASSISTANT EXECUTIVE ENGINEER (B), COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

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SHRI KAILASH CHAND SABHARWAL; (B. MARCH 6, 1937),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R., NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - GUJARAT TECHNICAL BOARD '60; A.M.I.E. CIVIL - INSTITUTION OF ENGINEERS (INDIA) '72.

SPECIALIZATIONS : PLANNING AND CONSTRUCTION.

EXPERIENCE : WORKS ASSISTANT, M.C.D., DELHI, 1961-62; PROJECT COMPUTOR, MINISTRY OF TRANSPORT, NEW DELHI, 1962-64; CIVIL OVERSEER AND JUNIOR ENGINEER, C.S.I.R., 1964-81; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R., SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : PLANNING OF CIVIL WORKS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 20, PLANNING - 6.

132

SHRI S P SAXENA; (B. NOVEMBER 7, 1940),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, CSIR COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - TECHNICAL EDUCATION BOARD, UTTAR PRADESH '59.

SPECIALIZATIONS : CONSTRUCTION OF MULTISTOREYED BUILDINGS; COMPUTER PROCESSING; PLANNING AND BUDGETING; PROJECT MANAGEMENT.

EXPERIENCE : CIVIL OVERSEER, C.P.W.D., NAGALAND, 1959-61; TECHNICAL ASSISTANT, S & I DEPARTMENT, RAJASTHAN, 1962; JUNIOR ENGINEER AND ASSISTANT ENGINEER (A), C.S.I.R., 1963-83; (ALSO ON DEPUTATION TO KENYA, 1976-81); ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : MANAGEMENT OF CONSTRUCTION PROJECTS; MONITORING & BUDGETING; COMPUTERISATION.

LANGUAGES : HINDI, ENGLISH.

VISITED : KENYA.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 20, PLANNING - 6, COMPUTER PROCESSING - 1.

133

SHRI R K SHARMA; (B. JULY 8, 1938),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - AD-HOC BOARD OF ENGINEERING EDUCATION, LUCKNOW '59.

SPECIALIZATIONS : PLANNING AND CONSTRUCTION.

EXPERIENCE : OVERSEER SIKAND CONST CO, NEW DELHI, 1958-59; OVERSEER, JUNIOR ENGINEER AND ASSISTANT ENGINEER (A), C.S.I.R., 1959-86; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE NOVEMBER, 1986.

PRESENT ACTIVITIES : CIVIL CONSTRUCTION AND MAINTENANCE.

PRFESSIONAL EXPERIECE : CONSTRUCTION - 19, MAINTENANCE - 12, PLANNING - 1.

134

SHRI J K SHUKLA; (B. AUGUST 18, 1939),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - PANJAB '58.

SPECIALIZATIONS : CIVIL CONSTRUCTION; PREPARATION OF ESTIMATES AND TENDERS.

EXPERIENCE : JUNIOR ENGINEER, M/S. ORIENTAL BUILDING AND FURNISHING CO., NEW DELHI, 1958-59; JUNIOR ENGINEER AND CIVIL ENGINEER (A), C.S.I.R., 1959-81; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : CIVIL CONSTRUCTION AND PREPARATION OF ESTIMATES AND TENDERS FOR C.S.I.R. HOUSING SCHEMES.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 8, PREPARATION OF ESTIMATES & TENDERS - 23.

135

SHRI CHARANJIT SINGH; (B. AUGUST 29, 1953),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, CSIR COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - DELHI '73.

SPECIALIZATIONS : CONSTRUCTION, PLANNING AND DESIGNING.

EXPERIENCE : JR. ENGINEER, JR.ENGINEER II AND ASSISTANT ENGINEER (A), C.S.I.R., 1974-88; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : CONSTRUCTION, PLANNING & DESIGN.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 16, CONSTRUCTION - 16, PLANNING - 1 16.

136

SHRI ISHWAR SINGH; (B. MAY 6, 1940),

TECHNICAL OFFICER (B), COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

QUALIFICATIONS : MATRICULATION - BOARD OF EDUCATION, DELHI '57.

SPECIALIZATIONS : REPROGRAPHY.

EXPERIENCE : L.D.C., VARI-TYPE OPERATOR, XEROX OPERATOR AND TECHNICAL OFFICER (A), C.S.I.R., 1962-88; TECHNICAL OFFICER (B), C.S.I.R. SINCE APRIL, 1988.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 17, REPROGRAPHY - 17, MAINTENANCE - 17, PRODUCTION - 17, IND. MANAGEMENT - 7.

137

SHRI SURINDER SINGH; (B. OCTOBER 19, 1939),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - MADRAS '57; SURVEYOR'S CERTIFICATE COURSE - DELHI '60.

SPECIALIZATIONS : CIVIL CONSTRUCTION AND MAINTENANCE.

EXPERIENCE : OVERSEER AND CIVIL ENGINEER, C.S.I.R., 1958-81; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE FEBRUARY, 1981.

PRESENT ACTIVITIES : CIVIL CONSTRUCTION AND MAINTENANCE.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 29.

138

SHRI D N SRIVASTAVA; (B. SEPTEMBER 13, 1935),

PRODUCTION OFFICER (B), INRIST CENTRE, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : B.A. - DELHI '61; M.A. HINDI - DELHI '63.

SPECIALIZATIONS : PRODUCTION AND PRINTING.

EXPERIENCE : COPY HOLDER, GOVERNMENT OF INDIA PRESS, NEW DELHI, 1955-65; PROOF READER AND SENIOR PRODUCTION ASSISTANT, C.S.I.R., 1965-80; PRODUCTION OFFICER (A), P.I.D., 1980-85; PRODUCTION OFFICER (A), C.S.I.R., 1985-87; PRODUCTION OFFICER (B), C.S.I.R. SINCE SEPTEMBER, 1987.

PRESENT ACTIVITIES : PRODUCTION AND PRINTING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODN. - 38.

139

SHRI S C SRIVASTAVA; (B. MAY 20, 1944),

ASSISTANT EXECUTIVE ENGINEER (B), COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - STATE BOARD OF TECHNICAL EDUCATION, UTTAR PRADESH '67.

EXPERIENCE : CIVIL OVERSEER, DIFFERENT PRIVATE FIRMS OF CONTRACTORS, 1968-70; JUNIOR ENGINEER AND ASSISTANT ENGINEER (A), C.S.I.R., 1970-88; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. (CRRI) SINCE APRIL, 1988.

PRESENT ACTIVITIES : CONSTRUCTION & MAINTENANCE OF CIVIL ENGINEERING WORKS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 20, MAINTENANCE - 12.

140

SHRI C V SUBHAIH; (B. JULY 1, 1950),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI

QUALIFICATIONS : L.C.E. CIVIL ENGINEERING - STATE BOARD OF TECHNICAL EDUCATION, ANDHRA PRADESH '69; B.E. CIVIL ENGINEERING - MADURAI '80.

SPECIALIZATIONS : CIVIL ENGINEERING.

EXPERIENCE : JUNIOR ENGINEER, C.S.I.R., MADRAS, 1973-78; JUNIOR ENGINEER AND ASSISTANT EXECUTIVE ENGINEER (A), C.E.C.R.I., 1978-83; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE MAY, 1983.

PRESENT ACTIVITIES : CONSTRUCTION.

LANGUAGES : TELGU, TAMIL, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 20.

141

SHRI R SUNDRARAJAN; (B. OCTOBER 2, 1944),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, CSIR COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - TAMIL NADU '67; A.M.I.E. - INSTITUTION OF ENGINEERS (INDIA) '78.

SPECIALIZATIONS : EXECUTION OF CONSTRUCTION PROJECTS.

EXPERIENCE : SUPERVISOR, M/S SATHYANARAYANA BROS, 1968-73; ENGINEER, M/S GANAPATHY BROS, 1973-75; JUNIOR ENGINEER, N.A.L., 1975-77; ASSISTANT ENGINEER (A), C.S.I.R. 1977-82; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE FEBRUARY, 1982.

PRESENT ACTIVITIES : EXECUTION OF CONSTRUCTION PROJECTS.

LANGUAGES : TAMIL, ENGLISH,HINDI,KANNADA.

142

SHRI SATISH KUMAR TULI; (B. NOVEMBER 16, 1940),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN ELECTRICAL ENGINEERING - PUNJAB POLYTECHNIC '60.

SEPCIALISATIONS : ELECTRICAL ENGINEERING.

EXPERIENCE . JUNIOR ENGNEER, JUNIOR ENGINEER (S G) AND ASSISTANT ENGINEER (A), C.S.I.R., 1963-87; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R., SINCE NOVEMBER, 1987

PRESENT ACTIVITIES : PLANNING, EXECUTION AND MAINTENANCE.

LANUGAGES : HINDI,PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECH. DEV. - 1, DESIGN, CONSULTANCY, OPERATION, TESTING, MAINTAENANCE, PLANNING - 30.

143

SHRI L VEDACHALA M; (B. FEBRUARY 15, 1940),

ASSISTANT EXECUTIVE ENGINEER (B), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - MADRAS '60.

EXPERIENCE : JUNIOR ENGINEER, N.I.O., 1970-81; S.T.A., ASSISTANT ENGINEER AND ASSISTANT EXECUTIVE ENGINEER, C.E.C.R.I., 1981-88; ASSISTANT EXECUTIVE ENGINEER (B), C.S.I.R. SINCE APRIL, 1988.

PRESENT ACTIVITIES : CIVIL CONSTRUCTION.

LANUGAGES : TAMIL, HINDI, TELUGU, ENGLISH, SANSKRIT.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 23.

144

SHRI A K DEY; (B. FEBRUARY 20, 1944),

ASSISTANT ENGINEER (A), COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

145

SHRI S K GHOSH; (B. MARCH 1, 1945),

ASSISTANT ENGINEER (A), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - WEST BENGAL '65.

EXPERIENCE : JUNIOR ENGINEER, C.S.I.R. (POSTED AT N.M.L. AND C.M.E.R.I.), 1973-88; ASSISTANT ENGINEER (A), C.S.I.R. (POSTED AT C.M.E.R.I., DURGAPUR), SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : CIVIL CONSTRUCTION.

LANUGAGES : BENGALI, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION - 28.

146

SHRI D K GUPTA; (B. SEPTEMBER 24, 1942),

ASSISTANT ENGINEER (A), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - TECHNICAL EDUCATION BOARD, U.P. '63.

SPECIALIZATIONS : PLANNING AND BUILDING DESIGN .

EXPERIENCE : JUNIOR ENGINEER, C.S.I.R., 1964-84; (ALSO WORKED WITH GOVERNMENT OF TANZANIA ON DEPUTATION, 1974-76); ASSISTANT ENGINEER (A), C.S.I.R. SINCE JUNE, 1984.

PRESENT ACTIVITIES : PLANNING.

LANGUAGES : HINDI, ENGLISH.

VISITED : TANZANIA.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 26.

147

SHRI N C HARSHVARDHAN; (B. MARCH 10, 1953),

SCIENTIST AI, COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, NEW DELHI.

QUALIFICATIONS : B.SC. - ANDHRA '72; M.SC. ORGANIC CHEMISTRY - KANPUR '75.

SPECIALIZATIONS : ORGANIC CHEMISTRY.

EXPERIENCE : S.T.A., R.R.L, C.C.M.B., 1979-82; S.T.A., C.S.I.R.-PTC, HYDERABAD 1983-88; SCIENTIST AI, C.S.I.R-PTC, HYDERABAD SINCE DECEMBER, 1988.

LANGUAGES : HINDI, ENGLISH, TELUGU.

148

SHRI S P JAIN; (B. JULY 16, 1938),

ASSISTANT ENGINEER (A), ENGINEERING SERVICES DIVISION, C.S.I.R. COMPLEX, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - LUCKNOW, '58.

EXPERIENCE : JUNIOR ENGINEER, C.S.I.R., 1964-87; ASSISTANT ENGINEER (A), C.S.I.R. SINCE JUNE, 1987.

PRESENT ACTIVITIES : PLANNING CIVIL CONSRTUCTION.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSTRUCTION -27, PALNNING - 27.

149

SHRI J J SAHA; (B. SEPTEMBER 24, 1938),

ASSISTANT ENGINEER (A), ENGINEERING SERVICES DIVISION, CSIR COMPLEX, NEW DELHI.

150

SHRI P K SHARMA; (B. OCTOBER 8, 1939),

ASSISTANT ENGINEER (A), ENGINEERING SERVICES DIVISION, CSIR COMPLEX, NEW DELHI.

151

SHRI I D TYAGI; (B. JULY 26, 1937),

ASSISTANT ENGINEER (A), SCIENTIST APARTMENTS, C.S.I.R., MAHARANI BAGH, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN CIVIL ENGINEERING - ROORKEE '58.

EXPERIENCE : JUNIOR ENGINEER (CIVIL), C.S.I.R., 1974-88; ASSISTANT ENGINEER (A), C.S.I.R. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : MAINTENANCE OF BUILDINGS.

LANGUAGES : HINDI, ENGLISH.

Publications & Information Directorate
New Delhi

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DR G P PHONDKE; (B. APRIL 22, 1939),

DIRECTOR, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. NUCLEAR PHYSICS - BOMBAY '60; PH.D. BIO-PHYSICS - LONDON '67.

SPECIALIZATIONS : IMMUNOLOGY; CELL SURFACE BIO-PHYSICS; RADIATION BIOLOGY; CANCER BIOLOGY; SCIENCE COMMUNICATION.

EXPERIENCE : LECTURER, WILSON COLLEGE BOMBAY, 1960; SCIENTIFIC OFFICER, B.A.R.C, BOMBAY, 1960-83; EDITOR, SCIENCE TODAY AND SCIENCE EDITOR, TIMES OF INDIA, BOMBAY, 1986-89; DIRECTOR, P.I.D. SINCE JUNE, 1989.

PERSENT ACTIVITIES : POPULAR SCIENCE WRITING AND EDITING; SCIENCTIFIC PUBLICATIONS; INFORMATION DISSEMINATION.

LANGUAGES : MARATHI, HINDI, ENGLISH, FRENCH.

VISITED : ISRAEL, U.K., FRANCE, U.S.A., GERMANY, ITALY, PHILIPPINES, MALAYSIA, SINGAPORE.

PUBLICATIONS & PATENTS : RES PAPERS - 100, ARTICLES - 1200, POP SC BOOKS - 17.

AWARDS & DISTINCTIONS : FELLOW, MAHARASHTRA ACADEMY OF SCIENCE; GOLD MEDAL, INDIAN COLLEGE OF ALLERGY; STATE AWARDS FOR EXCELLENCE IN LITERATURE, GOVT OF MAHARASHTRA, 1986-87 AND 1987-88; NCSTC NATIONAL AWARD, 1991; INDIRA GANDHI PRIZE FOR SCIENCE POPULARIZATION, 1992; FELLOWSHIP, INDIAN SCIENCE WRITER'S ASSOCIATION, 1993.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. -23, TEACHING - 10, EDITING - 11, R&D MANAGEMENT - 18, ADMINISTRATION - 15

153

SHRI BIMAN BASU; (B. JUNE 6, 1945),

SCIENTIST F, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) CHEMISTRY - DELHI '64; M.SC. CHEMISTRY - DELHI '67.

SPECIALIZATIONS : SCIENCE COMMUNICATION THROUGH PRINT & ELECTRONIC MEDIA.

EXPERIENCE : ASSISTANT LECTURER, HANSRAJ COLLEGE, DELHI, 1967-70; ASSISTANT EDITOR (B) AND EDITOR (C), C.S.I.R., 1970-81; (ALSO NEWS EDITOR AND SCIENCE CORRESPONDENT, A.I.R., 1974-77); SCIENTIST EI AND SCIENTIST EII P.I.D., 1981-91; SCIENTIST F, P.I.D. SINCE JUNE, 1991.

PRESENT ACTIVITIES : EDITING AND PRODUCTION OF A POPULAR SCIENCE MAGAZINE, POPULAR SCIENCE BOOKS AND PRODUCTION OF S & T LITERATURE.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : E. GERMANY.

PUBLICATIONS & PATENTS : ARTICLES - 200, BOOKS - 3, RADIO BROADCASTS - 100.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 4, EDITING - 23, SCIENCE WRITING - 23.

154

SHRI R K GUPTA; (B. MAY 1, 1935),

SCIENTIST F, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY - RAJASTHAN '59.

SPECIALIZATIONS : SCIENCE EDITING.

EXPERIENCE : J.S.A., C.M.R.S., 1960-65; S.S.A., SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, P.I.D., 1965-92; SCIENTIST F, P.I.D. SINCE FEBRUARY, 1992.

PRESENT ACTIVITIES : EDITING OF SCIENCE PERIODICALS.

LANGUAGES : HINDI, URDU, ENGLISH.

VISITED : U.K.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1, ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, TEACHING - 1, EDITING - 29.

155

SHRI S K NAG; (B. MARCH 26, 1939),

SCIENTIST F, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - PATNA '62; UNIDO CERTIFICATE ON INFORMATICS, '76.

SPECIALIZATIONS : SCIENCE WRITING AND EDITING; PRODUCTION OF SCIENTIFIC BOOKS & PERIODICALS; DOCUMENTATION; INDUSTRIAL INFORMATION DISSEMINATION.

EXPERIENCE : S.S.A., C.F.R.I., 1963-67; SCIENTIST B, SCIENTIST C, SCIENTIST EI AND SCIENTIST EII, P.I.D., 1967-92; (ALSO ATTENDED UNIDO TRAINING COURSE IN INFORMATION SCIENCE IN USSR & BELGIUM, 1976 AND TRAINING IN COMPUTER APPLICATIONS, INDIA EDUCATION CENTRE, NEW DELHI, 1985-86); SCIENTIST F, P.I.D. SINCE FEBRUARY, 1992.

PRESENT ACTIVITIES : EDITING/WRITING POPULAR SCIENCE BOOKS AND ARTICLES; COORDINATOR D.B.T. PROJECT; COORDINATOR SYNDICATED FEATURE SERVICE.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.S.S.R., BELGIUM, HOLLAND.

PUBLICATIONS & PATENTS : ARTICLES - 40.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING/SCIENCE WRITING - 30.

156

SHRI K SATYANARAYANA; (B. MARCH 12, 1936),

SCIENTIST F, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - B.H.U. '56; M.SC. BOTANY - B.H.U. '59.

SPECIALIZATIONS : PLANT PHYSIOLOGY; MARINE ALGAL CULTIVATION; SCIENCE WRITING AND EDITING.

EXPERIENCE : RESEARCH FELLOW, B.H.U., 1959-63; S.S.A., C.S.M.C.R.I., 1963-64; J.R.F., SCIENTIST B, SCIENTIST C, SCIEN-

TIST EI AND SCIENTIST EII, P.I.D., 1964-91; SCIENTIST EII, P.I.D. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : SCIENCE WRITING AND EDITING.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, ARTICLES - 4, BOOK REVIEWS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, EDITING - 25.

157

SHRI HEM CHAND JAIN; (B. DECEMBER 1, 1938),

SCIENTIST EII, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) BOTANY - DELHI '60; M.SC. GENETICS AND BREEDING - I.A.R.I., NEW DELHI '63; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '73.

SPECIALIZATIONS : PLANT BREEDING & GENETICS; DOCUMENTATION & INFORMATION SCIENCE; SCIENCE EDITING.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, P.I.D., 1963-88; SCIENTIST EII, P.I.D. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : COLLECTION, COLLATION AND INFORMATION DISSEMINATION; SCIENCE EDITING, HEAD,TECHNICAL INFORMATION SERVICES DIVISION AND EDITOR, MEDICINIAL AND AROMATIC PLANTS ABSTRACTS (MAPA).

LANGUAGES : HINDI, ENGLISH, FRENCH.

VISITED : U.S.S.R, THAILAND, SINGAPORE, PHILIPPINES.

PUBLICATIONS & PATENTS : ARTICLES - 24.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING AND DOCUMENTATION - 30.

158

SHRI D S R MURTY; (B. SEPTEMBER 2, 1939),

SCIENTIST EII, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. MATHEMATICS - DELHI '65.

SPECIALIZATIONS : SCIENCE EDITING; SYSTEMS ANALYSIS; COMPUTER PROCESSING.

EXPERIENCE : J.T.A., P.I.D., 1964-66; S.D.A., INSDOC, 1966-72; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, P.I.D., 1972-89; SCIENTIST EII, P.I.D. SINCE NOVEMBER, 1989.

PRESENT ACTIVITIES : TECHNICAL EDITING (JSIR).

LANGUAGES : TELUGU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 14, POPULAR SCIENCE ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 9, DOCUMENTATION - 6,COMPUTER PROCESSING - 14.

159

SHRI S S NATHAN; (B. JULY 30, 1941),

SCIENTIST EII, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. GEOLOGY - ANNAMALAI '64; CERTIFICATE IN GERMAN LANGUAGE - MAX MUELLER BHAWAN, INDIA '68.

SPECIALIZATIONS : INDUSTRIAL INFORMATION DISSEMINATION; SCIENCE EDITING; MANAGEMENT OF INFORMATION CELL AND SYSTEM; SCIENCE COMMUNICATION.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, 1965-89; SCIENTIST EII, P.I.D. SINCE JUNE, 1989.

PRESENT ACTIVITIES : INFORMATION DISSEMINATION; SCIENCE EDITING.

LANGUAGES : TAMIL, HINDI, TELUGU, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : ARTICLES - 50, POPULAR SCIENCE BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSULTANCY - 2, R&D MGMT - 5, EDITING - 29, DOCUMENTATION - 20

160

SHRI T P PATHAK; (B. JANUARY 1, 1938),

SCIENTIST EII, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. AGRICULTURE - AGRA '58; M.SC. AGRICULTURE - AGRA '60; SAHITYA RATNA IN HINDI - ALLAHABAD '67.

SPECIALIZATIONS : SCIENCE WRITING AND EDITING; SCIENCE POPULARIZATION; RAJ BHASHA; COINING OF SCIENTIFIC TERMINOLOGIES IN HINDI; LEXICOGRAPHY; COMPILATION OF DIRECTORY OF S & T PUBLICATIONS IN HINDI; ENCYCLOPAEDIC PUBLICATIONS IN HINDI.

EXPERIENCE : LECTURER, JANTA COLLEGE, ETAWAH, AND K.V. DEGREE COLLEGE, MACHHARA, MEERUT, U.P., 1960-62; ASSISTANT PROFESSOR, B.R. COLLEGE, AGRA, 1962-63; RESEARCH ASSISTANT, C.S.T.T., NEW DELHI, 1963-71; ASSISTANT EDITOR (B), OFFICER ON SPECIAL DUTY (C) AND SCIENTIST EI, P.I.D., 1971-89; SCIENTIST EII, P.I.D. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : SCIENCE WRITING AND EDITING; SCIENCE POPULARIZATION; SCIENTIFIC ENCYCLOPAEDIC WORK IN HINDI.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 140, SCIENTIFIC BOOKS - 11, RADIO TALKS - 92, T.V. PRESENTATIONS - 35, CHILDREN SCIENCE BOOKS -6, ENCYCLOPAEDIC PUBLICATIONS LIKE BHARAT KI SAMPADA - SCIENTIFIC ENCYCLOPAEDIA OF INDIAN RAW MATERIALS IN HINDI.

AWARDS & DISTINCTIONS : ORIGINAL SCIENTIFIC BOOK WRITING IN HINDI AWARD, CSIR, 1989-90.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 3, EDITING - 27.

161

SHRI V RAMACHANDRAN; (B. FEBRUARY 15, 1936),

TECHNICAL OFFICER (EII), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : LPT, PRINTING TECHNOLOGY - MADRAS 55; DIPLOMA IN PRINTING TECHNOLOGY - POLYGRAPHIC INDUSTRY, CZECHOSLOVAKIA '62.

SPECIALIZATIONS : PRINTING TECHNOLOGY; REPROGRAPHY.

EXPERIENCE : LITHOGRAPHER, PHOTOGRAPHY OFFICER (A), PHOTOFRAPHY OFFICER (B) AND PHOTOGRAPHY OFFICER (C), INSDOC, 1956-83; PHOTOGRAPHY OFFICER (EI), INSDOC 1983-88; TECHNICAL OFFICER (EII), P.I.D. SINCE MARCH 1988.

PRESENT ACTIVITIES : PRINTING, CONSULTANCY.

LANGUAGES : TAMIL, ENGLISH, HINDI, CZECH.

VISITED : CZECHOSLOVAKIA.

PUBLICATIONS & PATENTS : ARTICLES - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 5, REPROGRAPHY - 15, CONSULTANCY - 3, PRODUCTION - 35, ADMINISTRATION - 31.

162

DR S A I RIZVI; (B. OCTOBER 5, 1939),

SCIENTIST EII, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '58; M.SC. CHEMISTRY - ALLAHABAD '60; D.PHIL. CHEMISTRY - ALLAHABAD '69; PROFICIENCY CERTIFICATE IN FRENCH - ALLAHABAD '66.

SPECIALIZATIONS : INFORMATION DISSEMINATION; ORGANIC CHEMISTRY; PLANT BIOCHEMISTRY; SCIENCE EDITING.

EXPERIENCE : LECTURER, E.C. COLLEGE, ALLAHABAD, 1960-61; LECTURER, J.C.I. COLLEGE, ALLAHABAD, 1961-72; SCIENTIST B, SCIENTIST C AND SCIENTIST EI, P.I.D., 1972-88; SCIENTIST EII, P.I.D. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : URDU, HINDI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 32, TECH. REPORTS - 12.

AWARDS & DISTINCTIONS : FELLOW, CHEMICAL SOCIETY, LONDON, U K, 1971.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, TEACHING - 12, EDITING - 18.

163

SHRI TENJARLA C S SASTRY; (B. NOVEMBER 16, 1936),

SCIENTIST EII, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. BOTANY - AGRA '58; DIPLOMA IN JOURNALISM - G.S.V. INSTITUTE, NEW DELHI '64; CERTIFICATE IN GERMAN - MAX MUELLAR BHAVAN, NEW DELHI.

SPECIALIZATIONS : MYCOLOGY AND PLANT PATHOLOGY; SCIENCE WRITING AND EDITING.

EXPERIENCE : DEMONSTRATOR, ANDHRA LOYLA COLLEGE, VIJAYAVADA, 1958-60; J.R.A., I.C.M.R., NEW DELHI, 1960-61; J.T.A., I.C.A.R., NEW DELHI, 1961-62; S.T.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, P.I.D., 1962-87; SCIENTIST EII, P.I.D. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : SCIENCE WRITING AND EDITING.

LANGUAGES : TELUGU, HINDI, PUNJABI, ORIYA, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, ARTICLES - 1, BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 2, EDITING - 28.

164

SHRI ASHOK K SEN; (B. NOVEMBER 30, 1943),

SCIENTIST EII, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. BOTANY - LUCKNOW '63.

SPECIALIZATIONS : SCIENCE EDITING.

EXPERIENCE : RESEARCH ASSISTANT, IARI, NEW DELHI, 1963-65; S.S.A., SCIENTIST A, SCIENTIST B, SCIENTIST C AND SCIENTIST EI, P.I.D., 1965-88; SCIENTIST EII, P.I.D. SINCE NOVEMBER, 1988; (ALSO CONDUCTED A TRAINING COURSE IN TECHNIQUE OF SCIENTIFIC COMMUNICATION IN BANGKOK AND THAILAND, ORGANIZED BY TISTR & CSIR JOINTLY DURING JUNE 26-30, 1989).

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, ARTICLES - 22.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, EDITING - 28.

165

DR B C SHARMA; (B. JUNE 20, 1944),

SCIENTIST EII, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY -KURUKSHETRA '66; PH.D. CHEMISTRY - I.I.Sc., BANGALORE '73

SPECIALIZATIONS : SCIENCE WRITING AND EDITING.

EXPERIENCE : LECTURER, M.M.H. COLLEGE, GHAZIABAD, 1966-67; S.S.A., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, P.I.D., 1966-91; SCIENTIST EII, P.I.D. SINCE SEPTEMBER, 1991.

PRESENT ACTIVITIES : SCIENCE WRITING AND EDITING.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RESEARCH PAPERS - 9, TECH. REPORTS - 7, ARTICLES - 30, BOOKS - 2.

AWARDS & DISTINCTIONS : DR J C GHOSH PRIZE, INDIAN INSTITUTE OF SCIENCE, BANGALORE, 1973-74.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, TEACHING - 1, EDITING - 21.

166

DR VINOD KUMAR AGARWAL; (B. AUGUST 18, 1941),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - LUCKNOW '61; M.SC. CHEMISTRY - LUCKNOW '63; PH.D. CHEMISTRY - LUCKNOW '71; PROFICIENCY IN FRENCH - LUCKNOW '70.

SPECIALIZATIONS : MEDICINAL CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : ANALYTICAL ASSISTANT, GOVERNMENT OF U.P., LUCKNOW, 1963-64; LECTURER, CHRISTIAN COLLEGE, LUCKNOW, 1964-65; RESEARCH ASSISTANT AND S.R.F., K.G. MEDICAL COLLEGE, LUCKNOW, 1965-72; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1972-88, SCIENTIST EI, P.I.D. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : COMPILATION OF SCIENTIFIC INFORMATION.

LANGUAGES : HINDI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, EDITING - 14.

167

SHRI TARUN BANERJEE; (B. AUGUST 23, 1948),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - DELHI '70.

SPECIALIZATIONS : PHYSICS; SCIENCE EDITING

EXPERIENCE : ASSISTANT LECTURER, DELHI COLLEGE OF ENGINEERING, DELHI, 1970-72; SCIENTIST A SCIENTIST B AND SCIENTIST C, P.I.D., 1977-91; SCIENTIST EI, P.I.D. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : SCIENCE EDITING; INFORMATION DISSEMINATION.

LANGUAGES : BENGALI, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, EDITING - 20.

168

MRS DEEKSHA BIST; (B. JUNE 28, 1956),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - GARHWAL '76; M.SC. BOTANY - KUMAON '78.

SPECIALIZATIONS : POPULAR SCIENCE WRITING; SCIENCE EDITING & PRODUCTION; SCIENCE POPULARIZATION; PLANT PATHOLOGY.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1979-92; SCIENTIST EI, P.I.D. SINCE FEBRUARY, 1992.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 1, ARTICLES - 50, REWRITING IN HINDI - 1.

AWARDS & DISTINCTIONS : PUBLIC HONOUR, MANAV SEVA PARISHAD, NEW DELHI, 1990-91.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODUCTION - 5, PLANNING - 5, EDITING - 14.

169

SHRI KULDIP CHAND; (B. JULY 8, 1945),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - PUNJABI '64; M.A. SOCIOLOGY - MEERUT '68; CERTIFICATE IN LIB.SC. '70; B.LIB.SC. - PUNJABI '72; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '76; DIPLOMA IN JOURNALISM - DELHI '83.

SPECIALIZATIONS : SCIENCE EDITING; DOCUMENTATION; INFORMATION SCIENCE; LIBRARY SCIENCE; JOURNALISM.

EXPERIENCE : J.T.A., S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1964-88; (ALSO DOCUMENTALIST, COMMONWEALTH YOUTH PROGRAMME, ASIA PACIFIC CENTRE, COMMONWEALTH SECRETARIAT, CHANDIGARH, 1980-82 AND EDITOR, SISCOM SOCIETY FOR INFORMATION SCIENCE, NEW DELHI, 1983-88); SCIENTIST EI, P.I.D. SINCE APRIL, 1988

PRESENT ACTIVITIES : SCIENCE EDITING; INFORMATION DISSEMINATION; PREPARATION OF VOCABULARY CONTROL ON PLANTS; COMPILATION OF STATUS REPORTS ON SCIENCE & TECHNOLOGY, MARKETING AND ADVERTISEMENT.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 25.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 29, DOCUMENTATION - 25, INFORMATION DISSEMINATION - 25.

170

SHRI J B DHAWAN; (B. APRIL 6, 1944),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - AGRA '66.

SPECIALIZATIONS : SCIENCE EDITING; SPECTROSCOPY; ULTRASONICS.

EXPERIENCE : LECTURER, NEHRU COLLEGE, FARIDABAD, 1967-69; RESEARCH SCHOLAR, R.E.C., KURUKSHETRA, 1969-72; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1972-91; SCIENTIST EI, P.I.D. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : SCIENCE EDITING; INFORMATION DISSEMINATION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 20.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, TEACHING - 2, EDITING - 21.

171

DR R DORESWAMY; (B. NOVEMBER 22, 1949),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - BANGALORE '67; M.SC. ORGANIC CHEMISTRY - BANGALORE '69; PH.D BIOCHEMISTRY - BANGALORE '92.

SPECIALIZATIONS : INFORMATION SCIENCE; BIOCHEMICAL TOXICOLOGY.

EXPERIENCE : LECTURER, S.R.C. OF ARTS AND SCIENCE COLLEGE, BANGALORE, 1968-69; LECTURER, DEPARTMENT OF BIOCHEMISTRY, V.P. CHEST INSTITUTE, DELHI, 1985-90; SCIENTIST EI, P.I.D. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : INFORMATION DISSEMINATION.

LANGUAGES : KANNADA, HINDI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 5, ARTICLES - 25.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, TEACHING - 6, SURVEY OF NATURAL RESOURCES - 15, TECHNO-ECONOMIC SURVEYS - 15, EDITING - 20, DOCUMENTATION - 15, DESIGN - 8.

172

SHRI R P GOEL; (B. SEPTEMBER 16, 1938),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '58; M.A. PSYCHOLOGY - DELHI '68; M.SC. PHYSICS - MEERUT '78.

SPECIALIZATIONS : SCIENCE EDITING.

EXPERIENCE : SCIENTIFIC ASSISTANT AND RESEARCH SUPERVISOR, U.P. IRRIGATION RESEARCH INSTITUTE, ROORKEE, 1958-63; J.L.A., N.P.L., 1963-64; J.T.A., S.S.A. AND SCIENTIST A, P.I.D., 1964-72; ASSISTANT DIRECTOR, I.S.I., NEW DELHI, 1972; SCIENTIST B AND SCIENTIST C, P.I.D., 1972-1984; SCIENTIST EI, P.I.D. SINCE NOVEMBER, 1984.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RES.-5, PILOT PLANT- 1, EDITING - 26.

173

SHRI SAHIB HOTCHANDANI; (B. SEPTEMBER 9, 1945),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '64; M.SC. CHEMISTRY - AGRA '66.

SPECIALIZATIONS : SCIENCE EDITING.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1969-89; SCIENTIST EI, P.I.D. SINCE OCTOBER, 1989.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 2, EDITING - 24.

174

SHRI MOHAMMAD KHALIL; (B. JANUARY 30, 1944),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - A.M.U. '68; M.SC. BOTANY - A.M.U. '73; B.ED. - A.M.U. '74; DIPLOMA IN JOURNALISM - BHARTIYA VIDYA BHAWAN, NEW DELHI '79; ADDITIONAL DIPLOMA IN MASS MEDIA (URDU) - J.N.U. '80.

SPECIALIZATIONS : POPULAR SCIENCE WRITING & EDITING.

EXPERIENCE : SENIOR TECHNOLOGIST, HAMDARD COLLEGE OF PHARMACY, DELHI UNIVERSITY, NEW DELHI, 1974-76; S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1976-91; SCIENTIST EI, P.I.D. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : EDITING AND SCIENCE JOURNALISM IN URDU.

LANGUAGES : URDU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : POPULAR SCIENCE ARTICLES - 160, POPULAR SCIENCE BOOKS - 4.

AWARDS & DISTINCTIONS : NATIONAL AWARD FOR POPULAR SCIENCE BOOK SERIES IN URDU, 1989, 1993; POPULAR SCIENCE WRITING AWARD IN URDU LITERATURE, DELHI URDU ACADEMY, 1991.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RES - 2, TEACHING - 2, EDITING - 17.

175

SHRI H K KHANNA; (B. OCTOBER 11, 1944),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC.(HONS.) ORGANIC CHEMISTRY - PANJAB '67.

SPECIALIZATIONS : ORGANIC CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : LECTURER, NEHRU COLLEGE, FARIDABAD, 1967-69; RESEARCH ASSISTANT, I.A.R.I.,NEW DELHI, 1970; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1970-90; SCIENTIST EI, P.I.D. SINCE NOVEMBER, 1990.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : SCIENTIFIC BOOKS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, TEACHING - 2, EDITING - 23.

176

SHRI ATUL KRISHNA MANDAL; (B. DECEMBER 25, 1943),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - CALCUTTA '65; M.SC. BOTANY - B.H.U. '68.

SPECIALIZATIONS : SCIENCE EDITING.

EXPERIENCE : S.S.A., ASSISTANT EDITOR (B) AND SCIENTIST C, P.I.D., 1971-91; SCIENTIST EI, P.I.D. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, EDITING - 22.

177

DR LALIT MOHAN MATHUR; (B. JANUARY 10, 1944),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY - I.I.T., DELHI '67; PH.D. CHEMISTRY - DELHI '75.

SPECIALIZATIONS : SYNTHETIC ORGANIC CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1973-88; SCIENTIST EI, P.I.D. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, ARTICLES - 6, POPULAR SCIENCE BOOKS - 3, BOOK REVIEWS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, EDITING - 20.

178

MRS SNEH PRABHA MEHTA; (B. NOVEMBER 1, 1939),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '60; M.SC. CHEMISTRY - RAJASTHAN '62.

SPECIALIZATIONS : CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1967-87; SCIENTIST EI, P.I.D. SINCE MARCH, 1987.

PRESENT ACTIVITIES : INFORMATION RETRIEVAL; SCIENCE EDITING.

LANGUAGES : HINDI, PUNJABI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, ARTICLES - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, EDITING - 23.

179

MRS SANTOSH MEHTANI; (B. MAY 29, 1946),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - MYSORE '64; M.SC. BOTANY - MYSORE '66; CERTIFICATE IN FRENCH LANGUAGE - BHARTIYA VIDYA BHAWAN, NEW DELHI '71.

SPECIALIZATIONS : TISSUE CULTURE; ECONOMIC BOTANY; SCIENCE EDITING.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1970-89; SCIENTIST EI, P.I.D. SINCE MARCH, 1989.

PRESENT ACTIVITIES : COMPILATION AND EDITING OF SCIENTIFIC INFORMATION.

LANGUAGES : PUNJABI, KANNADA, HINDI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : ARTICLES - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 3, EDITING - 21.

180

SHRI S K RASTOGI; (B. NOVEMBER 7, 1948),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '66; M.SC. CHEMISTRY - MEERUT '68.

SPECIALIZATIONS : ORGANIC CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : LECTURER, A.S.DEGREE COLLEGE, MAWANA, MEERUT, 1968-70; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1970-88; SCIENTIST EI, P.I.D. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 2, EDITING - 23.

181

SHRI DILIP SALWI; (B. JULY 19, 1952.),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - DELHI '71; M.SC. ASTROPHYSICS - DELHI '73.

SPECIALIZATIONS : ASTROPHYSICS; SCIENCE WRITING; SCIENCE EDITING..

EXPERIENCE : S.T.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.R., 1975-86; SCIENTIST C, P.I.D., 1986-91; SCIENTIST EI, P.I.D. SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : SCIENCE WRITING AND EDITING.

LANGUAGES : HINDI, MARATHI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 920, POPULAR SCIENCE BOOKS - 24.

AWARDS & DISTINCTIONS : CHILDREN BOOK TRUST AWARDS, 1983, 1985; SANSKRITI AWAR FOR SCIENCE JOURNALISM, 1986; NATIONAL PRIZE FOR CHILDREN'S LITERATURE, NCERT, 1989-90.

PROFESSIONAL EXPERIENCE(IN YEARS) : SCIENCE EDITING - 18, SCIENCE WRITING - 25.

182

SHRI S N SAXENA; (B. NOVEMBER 1, 1935),

TECHNICAL OFFICER (EI), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '56.

SPECIALIZATIONS : PRINTING AND PRODUCTION.

EXPERIENCE : PROOF READER, D.S.T.P., C.S.I.R., 1958-61; PROOF READER, S.T.A., SCIENTIST A, ASSISTANT PRODUCTION OFFICER (B) AND PRODUCTION OFFICER (C), P.I.D., 1961-88; TECHNICAL OFFICER (EI), P.I.D. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : PRINTING AND PRODUCTION.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) PRODN. - 32.

183

SHRI M L SHARMA; (B. SEPTEMBER 13, 1939),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - RAJASTHAN '61; M.SC. APPLIED GEOLOGY - ROORKEE '63.

SPECIALIZATIONS : SCIENCE EDITING.

EXPERIENCE : J.T.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1964-87; SCIENTIST EI, P.I.D. SINCE JULY, 1987; (VISITED POLAND UNDER CSIR-PAS BILATERAL EXCHANGE PROGRAMME, JUNE, 1989).

PRESENT ACTIVITIES : SCIENCE EDITING; STUDY OF GEOLOGICAL LITERATURE AND SAMPLES.

LANGUAGES : HINDI, ENGLISH.

VISITED : POLAND.

PUBLICATIONS & PATENTS : ARTICLES - 5, BOOK REVIEWS - 2, HINDI TRANSLATIONS -10 AND SEVERAL GEOLOGICAL ABSTRACTS.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 29.

184

SHRI VIJAY K SHARMA; (B. APRIL 29, 1943),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) CHEMISTRY - DELHI '64; M.SC. CHEMISTRY - DELHI '78; DIPLOMA IN TECHNICAL TRANSLATION - INSDOC, NEW DELHI '69; TRAINING IN INFORMATION HANDLING ORGANISED BY UNESCO, '79; CERTIFICATE IN BASIC PROGRAMMING - SIS, NEW DELHI '86; TRAINING COURSE IN ELECTRONIC PROCESSING, C.M.C., NEW DELHI '86.

SPECIALIZATIONS : SCIENCE EDITING; INFORMATION DISSEMINATION.

EXPERIENCE : J.T.A., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1964-88; SCIENTIST EI, P.I.D. SINCE MAY, 1988.

PRESENT ACTIVITIES : PROJECT LEADER AND EDITOR, RESEARCH AND INDUSTRY JOURNAL.

LANGUAGES : HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : ARTICLES - 13.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 29, DOCUMENTATION - 5.

185

DR GIAN SINGH; (B. FEBRUARY 12, 1947),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJABI '66; M.SC. CHEMISTRY - PUNJABI '68; PH.D. CHEMISTRY - GURU NANAK DEV UNIVERSITY, AMRITSAR '74.

SPECIALIZATIONS : COORDINATION CHEMISTRY; SCIENCE EDITING; POPULAR SCIENCE WRITING.

EXPERIENCE : S.S.A., SCIENTIST B AND SCIENTIST C, P.I.D., 1975-89; SCIENTIST EI, P.I.D. SINCE NOVEMBER, 1989.

PRESENT ACTIVITIES : INFORMATION ANALYSIS; ABSTRACTING AND EDITING OF SCIENTIFIC INFORMATION.

LANGUAGES : HINDI, ENGLISH, GERMAN, PUNJABI.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, ARTICLES - 25.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, TEACHING - 2, EDITING - 9, DOCUMENTATION - 9, ABSTRACTING - 15.

186

SHRI RAMESH CHAND VARSHNEYA; (B. JULY 1, 1943),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. BOTANY - AGRA '66.

SPECIALIZATIONS : COMPILATION AND EDITING OF SCIENTIFIC INFORMATION.

EXPERIENCE : RESEARCH ASSISTANT, IARI, NEW DELHI, 1966-68; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1968-88; SCIENTIST EI, P.I.D. SINCE APRIL, 1988.

PRESENT ACTIVITIES : COMPILATION AND EDITING OF SCIENTIFIC INFORMATION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : SCIENTIFIC BOOKS - 4, ARTICLES - 310.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 2, APPLIED RESEARCH - 2, EDITING - 25, DOCUMENTATION - 25.

187

SHRI M V VISWANATHAN; (B. JULY 21, 1942),

SCIENTIST EI, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. BOTANY - ANNAMALAI '68; PH.D. BOTANY - MEERUT '91; INTERNATIONAL DIPLOMA IN HERBARIUM TECHNIQUES (ENGLAND) 1990.

SPECIALIZATIONS : PLANT TAXONOMY; ECONOMIC BOTANY.

EXPERIENCE : BOTANIST, BOTANICAL SURVEY OF INDIA, DEHRA DUN, 1973-78; SCIENTIST B AND SCIENTIST C, P.I.D., 1978-88; SCIENTIST EI, P.I.D. SINCE JULY, 1988

PRESENT ACTIVITIES : COLLECTION AND IDENTIFICATION OF PLANT RAW MATERIALS.

LANGUAGES : TAMIL, HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 17.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 2, SURVEY OF NATURAL RESOURCES - 20.

188

DR VIKRAM V AGADI; (B. FEBRUARY 27, 1954),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - KARNATAKA '73; M.SC. BOTANY - KARNATAKA '75; PH.D. BOTANY - KARNATAKA '86.

SPECIALIZATIONS : MARINE SCIENCES(OCEANOGRAPHY); MARINE ALGAL STUDIES; SCIENCE EDITING; SCIENCE WRITING/REVIEWING.

EXPERIENCE : LECTURER, R.M.G. JUNIOR COLLEGE, MUDHOL, KARNATAKA, 1975; BOTANIST, M/S CELLULOSE PRODUCTS INDIA LTD., AHMEDABAD, 1976; J.R.F. AND S.R.F., N.I.O., GOA, 1976-82; SCIENTIST A AND SCIENTIST B, P.I.D., 1982-89, SCIENTIST C, P.I.D. SINCE MARCH, 1989.

PRESENT ACTIVITIES : SCIENCE EDITING/WRITING.

LANGUAGES : KANNADA, HINDI, MARATHI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH REPORTS - 5, SCIENTIFIC BOOK - 1, BOOK REVIEWS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, QUALITY CONTROL - 1, TEACHING - 1, EDITING - 12.

189

DR B S AGGARWAL; (B. MAY 1, 1941),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '63; M.SC. CHEMISTRY - ROORKEE '65; PH.D. CHEMISTRY - JODHPUR '70.

SPECIALIZATIONS : ELECTROANALYTICAL CHEMISTRY; SCIENCE WRITING AND EDITING.

EXPERIENCE : TECHNICAL ASSISTANT, N.C.E.R.T., NEW DELHI 1965-67; LECTURER, JODHPUR UNIVERSITY, 1970-74; POOL OFFICER (CSIR), P.I.D., 1974-75; S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1975-86; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : SCIENCE WRITING AND EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES PAPERS - 9, TECH REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7, TEACHING - 7, EDITING - 15.

190

SHRI PRADEEP BANERJEE; (B. JULY 15, 1949),

TECHNICAL OFFICER (C), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : HIGHER SECONDARY - D.B.S.E '65; NATIONAL DIPLOMA IN COMMERCIAL ART - DELHI COLLEGE OF ART '70.

SPECIALIZATIONS : COMMERCIAL ART; GRAPHIC ART.

EXPERIENCE : ARTIST, BANARAS ART HOUSE, 1970-71; JR. TRTIST, DEPARTMENT OF EXTERSION MINITRY OF AGRICULTURE, NEW DELHI, 1971-73; S.T.A., ART OFFICER (A) AND ART OFFICER (B), INSDOC, 1973-86; TECHNICAL OFFICER (C), P.I.D. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : INCHARGE GRAPHIC DESIGN, RESPONSIBLE FOR ALL DESIGNS UNDER TAKEN BY P.I.D., NEW DELHI

LANGUAGES : BENGALI, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN - 21, CONSULTANCY - 6, PRODUCTION - 11, REPROGRAPHY - 10.

191

DR S K BHASIN; (B. JANUARY 29, 1943.),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC - PANJAB '64; M.SC. CHEMISTRY - VIKRAM '66; PH.D. CHEMISTRY - POONA '72.

SPECIALIZATIONS : INORGANIC CHEMISTRY; COORDINATION CHEMISTRY; METALLURGY; SCIENCE EDITING.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1978-88; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : PUNJABI, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, EDITING - 13.

192

MRS POONAM BHATT; (B. JANUARY 2, 1956),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) PHYSICS - DELHI '76; M.SC PHYSICS - DELHI '78; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC '80; CERTIFICATE IN PROFICIENCY (GERMAN) - J.N.U. '80.

SPECIALIZATIONS : SCIENCE EDITING; INFORMATION SCIENCE; EXPERIMENTAL SOLID STATE PHYSICS.

EXPERIENCE : J.S.A, CRRI, 1980-81; S.S.A., AND SCIENTIST B, P.I.D., 1981-88; SCIENTIST C, P.I.D. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH, PUNJABI, GUJARATI, GERMAN.

PUBLICATIONS & PATENTS : ARTICLES - 11, BOOK REVIEWS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 13.

193

DR O J CHAKRE; (B. JULY 7, 1950),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - MARATHWADA '73; M.SC. BOTANY - MARATHWADA '75; PH.D. BOTANY - MARATHWADA '79.

SPECIALIZATIONS : BOTANY; ENVIRONMENTAL SCIENCE (AEROBIOLOGY); SCIENCE EDITING.

EXPERIENCE : S.S.A, SCIENTIST A AND SCIENTIST B, P.I.D., 1978-88; (ALSO TRAINING COURSE IN AIR POLLUTION MONITORING TECHNIQUES, NEERI, NAGPUR, 1977 AND MEDICAL RESEARCH RESUSCILATION, VIGYAN BHAVAN, NEW DELHI, 1986); SCIENTIST C, P.I.D. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : POPULAR SCIENCE WRITING (ENVIRONMENTAL SCIENCE); EXECUTIVE MEMBER, NATIONAL COMMITTEE ON BIOFERTILIZER TECHNOLOGY INDIA AND NITROGEN FIXING TREES ASSOCIATION (NFTA), U.S.A.

LANGUAGES : MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RESEARCH PAPERS - 2, POPULAR SCIENCE ARTICLES - 16, BOOK REVIEWS - 6, NEWS AND NOTES -5

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 2, APPLIED RESEARCH - 1, EDITING - 13.

194

DR(MRS) SUNITA GARG; (B. JANUARY 20, 1956),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '75; M.SC. BOTANY - MEERUT '77; PH.D. BOTANY - GARHWAL '82.

SPECIALIZATIONS : TAXONOMY; ECONOMIC BOTANY; SCIENCE EDITING.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1980-88; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : BOOKS-2 RESEARCH PAPERS-25, ARTICLES - 6, RADIO TALKS-4

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 11.

195

MRS PRABHA GUPTA; (B. AUGUST 25, 1951),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.A(HONS) - DELHI '71; M.A. MATHEMATICS - DELHI '73; B.LIB.SC. - DELHI '78; M.LIB.SC. - DELHI '79.

SPECIALIZATIONS : INFORMATION SCIENCE.

EXPERIENCE : J.S.A., S.S.A. AND SCIENTIST B, P.I.D., 1980-90; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : COMPUTER PROCESSING.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROCESSING - 10, EDITING - 3.

196

DR RAJIV GUPTA; (B. MAY 14, 1954),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '74; M.SC. CHEMISTRY - AGRA '76; PH.D. CHEMISTRY - AGRA '80.

SPECIALIZATIONS : PLANT CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : J.R.F., S.V. COLLEGE, ALIGARH, 1978-80; RESEARCH ASSOCIATE, I.V.R.I, IZATNAGAR, 1980-81; S.S.A SCIENTIST A AND SCIENTIST B, P.I.D., 1982-89; SCIENTIST C, P.I.D. SINCE MARCH, 1989.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, EDITING - 8.

197

DR(MRS) K MADHAVIKUTTY HARIDAS; (B. JANUARY 15, 1943),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - KERALA '62; M.SC. BIOCHEMISTRY - MADRAS '64; PH.D. BIOCHEMISTRY - MADRAS '70.

SPECIALIZATIONS : BIOCHEMISTRY; SCIENCE EDITING.

EXPERIENCE : J.R.F.(CSIR) AND SCIENTIST(P.L. 480), UNIV. OF MADRAS, 1965-70; BIOCHEMIST, MADRAS VETERINARY COLLEGE, MADRAS, 1971-72; SCIENTIST A AND SCIENTIST B, P.I.D., 1981-88; SCIENTIST C, P.I.D. SINCE JULY, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RESEARCH PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, SCIENCE EDITING - 13.

198

DR(MRS) RAJ DULARI KAK; (B. JUNE 15, 1943),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - J & K '61; M.SC. BOTANY - J & K '63; PH.D. BOTANY - PATNA '68.

SPECIALIZATIONS : PLANT PHYSIOLOGY; ECOLOGY; ECONOMIC BOTANY.

EXPERIENCE : POST-DOCTORAL FELLOW, KASHMIR UNIVERSITY, 1969-70; S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1971-85; SCIENTIST C, P.I.D. SINCE APRIL, 1985; (ALSO TRAINING IN BOTANY IN U.K. UNDER BRITISH COUCIL TECHNICAL PROGRAMME, 1986-87).

PRESENT ACTIVITIES : COMPILATION OF SCIENTIFIC INFORMATION; SCIENCE EDITING.

LANGUAGES : KASHMIRI, HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 19.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 6, EDITING - 20.

199

DR KISHORE KUMAR KAKKAR; (B. NOVEMBER 1, 1950),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - RAJASTHAN '71; M.SC. CHEMISTRY - LUCKNOW '73; PH.D. CHEMISTRY - LUCKNOW '77; CERTIFICATE OF PROFICIENCY IN GERMAN - LUCKNOW '75.

SPECIALIZATIONS : INORGANIC CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1979-88; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, ARTICLES - 3, RADIO TALKS - 12, MONOGRAPH - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, EDITING - 12.

200

SHRI M M S KARKI; (B. JUNE 1, 1944),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY - AGRA '68; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC, NEW DELHI '81; DIPLOMA IN RUSSIAN LANGUAGE - ALL INDIA INSTITUTE OF RUSSIAN LANGUAGES, NEW DELHI '75.

SPECIALIZATIONS : SCIENCE WRITING AND EDITING; DOCUMENTATION; INFORMATION DISSEMINATION.

EXPERIENCE : LECTURER, NATIONAL INTERMEDIATE COLLEGE, U.P., 1966-68; RESEARCH ASSISTANT, PANTNAGAR UNIVERSITY, U.P., 1968-69; S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1970-85; (ALSO ENVIRONMENTAL OFFICER, ON DEPUTATION, DEPARTMENT OF ENVIRONMENT, NEW DELHI, AUGUST 1983-JUNE 1986); SCIENTIST C, P.I.D. SINCE DECEMBER, 1985.

PRESENT ACTIVITIES : EDITING.

LANGUAGES : HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : ARTICLES - 14.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 2, EDITING - 10, DOCUMENTATION - 12.

201

DR B C KASHYAP; (B. OCTOBER 10, 1949),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '69; M.SC. CHEMISTRY - B.I.T.S., PILANI '71; PH.D. CHEMISTRY - B.I.T.S., PILANI '74.

SPECIALIZATIONS : SPECTROSCOPY; COORDINATION CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1974-86; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, TEACHING - 3, PLANNING - 8, EDITING - 17.

202

DR K Y KAVATHEKAR; (B. AUGUST 1, 1951),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - INDORE '70; M.SC. BOTANY - INDORE '72; PH.D. BOTANY - RAJASTHAN '77.

SPECIALIZATIONS : BOTANY; SCIENCE WRITING AND EDITING.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1979-88; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SCIENCE WRITING AND EDITING(ECONOMIC BOTANY).

LANGUAGES : MARATHI, HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, POPULAR ARTICLES & BOOK REVIEWS - 15.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH-7, TEACHING- 3, EDITING - 11.

203

DR N R MANKAD; (B. OCTOBER 1, 1946),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - GUJARAT '67; M.SC. BOTANY - POONA '69; PH.D. BOTANY - SAURASHTRA '74.

SPECIALIZATIONS : GRASSLAND ECOLOGY; ECONOMIC BOTANY; COMPILATION AND EDITING OF SCIENTIFIC INFORMATION.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1976-86; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : COMPILATION AND EDITING OF SCIENTIFIC INFORMATION.

LANGUAGES : GUJARATI, HINDI, MARATHI, ENGLISH.

PUBLICATIONS & PATENTS : RESEARCH PAPERS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 14.

204

SHRI SHIV KUMAR MARHKAN; (B. MARCH 10, 1956),

PRINTING OFFICER (C), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC - AGRA '75; M.SC. MATHEMATICS - AGRA '78.

SPECIALIZATIONS : DESKTOP PUBLISHING.

EXPERIENCE : GRADUATE TRAINEE, THOMSON PRESS (I) LTD, FARIDABAD, 1978-81; PRINTING ASSTT, SR. PRINTING ASSTT, AND PRINTING OFFICER (B), P.I.D., 1981-89; PRINTING OFFICER (C), P.I.D. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : PHTOTYPE SETTING.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODUCTION - 13.

205

SHRI RAJIV MATHUR; (B. DECEMBER 23, 1954),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '74; M.SC. ZOOLOGY - A.M.U. '77.

SPECIALIZATIONS : SCIENCE EDITING; ZOOLOGY; ICHTHYOLOGY AND FISHERIES.

EXPERIENCE : J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1979-88; SCIENTIST C, P.I.D. SINCE APRIL, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING AND SCIENCE POPULARIZATION.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, ARTICLES - 25.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, EDITING - 14.

206

MRS MEENAKSHI; (B. JUNE 4, 1950),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) BOTANY - DELHI '69; M.SC. BOTANY - DELHI '71.

SPECIALIZATIONS : PLANT GENETICS; SCIENCE EDITING.

EXPERIENCE : LECTURER(PART-TIME), COLLEGE OF PHARMACY, UNIVERSITY OF DELHI, 1972; S.R.F., I.A.R.I., NEW DELHI, 1972-77; S.S.A., N.B.R.I., LUCKNOW, 1977-81; SCIENTIST A AND SCIENTIST B, P.I.D., 1981-87; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, APP. RES. - 5, TEACHING - 1, EDITING - 9.

207

DR T K MUKHERJEE; (B. SEPTEMBER 22, 1950),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. BOTANY - RAJASTHAN '73; PH.D. BOTANY - RAJASTHAN '79; CERTIFICATE IN GERMAN - JAIPUR '78;

SPECIALIZATIONS : PLANT NEMATOLOGY; TRADITIONAL MEDICINE; SCIENCE EDITING.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1981-88; (ALSO SHORT TERM INTENSIVE TRAINING ON SCIENCE ABSTRACTING & INDEXING NISIET, HYDERABAD, 1987); SCIENTIST C, P.I.D. SINCE MAY, 1988.

PRESENT ACTIVITIES : INFORMATION DISSEMINATION; SCIENCE EDITING.

LANGUAGES : BENGALI, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPER - 40, REVIEW ARTICLES -4, BOOK REVIEWS 15, POPULAR ARTICLES - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, SCIENCE EDITING - 10.

208

SHRI KUL BHUSHAN NAGPAL; (B. SEPTEMBER 12, 1954),

TECHNICAL OFFICER (C), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN PRINTING TECHNOLOGY, U P '74; M.A. SOCIOLOGY, MEERUT '81; P G DIPLOMA IN BOOK PUBLISHING AND BOOK PRODUCTION- DELHI '90.

SPECIALIZATIONS : LITHOGRAPHY; OFFSET COLOUR PRINTING; REPROGRAPHY.

EXPERIENCE : J.T.A., P.I.D., 1977-81; S.T.A., PRINTING OFFICER (A) AND PRINTING OFFICER (B), INSDOC, 1981-89; TECHNICAL OFFICER (B), P.I.D., 1989-91; TECHNICAL OFFICER (C), P.I.D. SINCE APRIL, 1991.

PRESENT ACTIVITIES : LITHOGRAPHY/OFFSET COLOUR PRINTING.

LANGUAGES : HINDI, PUNJABI, BENGALI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODUCTION - 18, REPROGRAPHY - 18; MULTI COLOUR QUALITY PRINTING - 18.

209

DR P K PANDA; (B. AUGUST 1, 1957),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) BOTANY - BERHAMPUR '76; M.SC. BOTANY - BERHAMPUR '78; PH.D. BOTANY - BEHRAMPUR '83.

SPECIALIZATIONS : PLANT PHYSIOLOGY; ECONOMIC BOTANY; SCIENCE WRITING AND EDITING.

EXPERIENCE : J.R.F. AND S.R.F., C.S.I.R, 1978-82; S.S.A. AND SCIENTIST B, P.I.D., 1982-89; SCIENTIST C, P.I.D. SINCE SEPTEMBER, 1989.

PRESENT ACTIVITIES : SCIENCE WRITING AND EDITING.

LANGUAGES : ORIYA, HINDI, BENGALI, TELUGU, ENGLISH.

VISITED : NEPAL.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, BOOK REVIEWS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC AND APP. RES. - 5, SURVEY OF NATURAL RESOURCES -1, EDITING - 8.

210

SHRI S D PANWAR; (B. JANUARY 2, 1954),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMSITRY - MEERUT '76; M.L.I.SC. INFORMATION SCIENCE - DELHI '79; P.G.DIP. IN JOURNALISM - BHARTIYA VIDYA BHAWAN '85; DIPLOMA IN MANAGEMENT, IGNOU, NEW DELHI '90.

SPECIALIZATIONS : INFORMATION STORAGE AND RETRIEVAL; POPULAR SCIENCE WRITING; COMPUTER APPLICATION IN LIBRARY MANAGEMENT; SCIENCE WRITING AND EDITING.

EXPERIENCE : JUNIOR DOCUMENTATION ASSISTANT, SENIOR DOCUMENTATION ASSISTANT AND DOCUMENTATION OFFICER (B), P.I.D., 1979-90; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : DATA BASE MANAGEMENT; TO ATTEND QUERIES ON MEDICINAL AND AROMATIC PLANTS; MANAGING DOCUMENTATION ACTIVITIES OF THE TISD.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 15.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 10.

211

SHRI P S RAWAT; (B. JANUARY 15, 1944),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '66; M.SC. CHEMISTRY - MEERUT '68.

SPECIALIZATIONS : SCIENCE EDITING.

EXPERIENCE : TECHNICAL ASSISTANT, D.G.H.S., NEW DELHI, 1969-74; S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1974-86; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : COMPILATION AND EDITING OF SCIENCE ARTICLES.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : BOOK-1

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 12.

212

MRS MADHU SAHNI; (B. JULY 2, 1954),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) CHEMISTRY - DELHI '74; M.SC. ORGANIC CHEMISTRY - DELHI '76.

SPECIALIZATIONS : ORGANIC CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : J.R.F., S.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1977-89; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 18.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 13.

213

SHRI R SAMBASIVAN; (B. DECEMBER 24, 1936),

TECHNICAL OFFICER (C), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) PHYSICS - DELHI '57; M.SC. PHYSICS - ANNAMALAI '86.

SPECIALIZATIONS : LASER PHYSICS; ASTROPHYSICS; INFORMATION DISSEMINATION.

EXPERIENCE : JUNIOR OBSERVER, INDIA METEORIOLOGICAL DEPARTMENT, NEW DELHI, 1958-60; J.S.A., S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1960-83; (ALSO TRAINING IN LASER PHYSICS, DENMARK, 1968-69 AND IN WINTER COLLEGE IN LASERS AND THEORETICAL PHYSICS, INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS, ITALY, 1981); TECHNICAL OFFICER (C), P.I.D. SINCE MAY, 1983.

PRESENT ACTIVITIES : SCIENCE EDITING; INFORMATION DISSEMINATION ON CURRENT DEVELOPMENT IN PHYSICS; LASER APPLICATION; ASTROPHYSICS.

LANGUAGES : TAMIL, HINDI, ENGLISH, GERMAN.

VISITED : DENMARK, ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, APP. RES. - 3, EDITING - 20, DOCUMENTATION - 4.

214

DR(MRS) REKHA SHARDA; (B. JUNE 8, 1949),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - RAJASTHAN '68; M.SC. ORGANIC CHEMISTRY - RAJASTHAN '70; PH.D. CHEMISTRY - DELHI '76.

SPECIALIZATIONS : PHYTOCHEMISTRY; SCIENCE EDITING.

EXPERIENCE : J.R.F., S.R.F., DELHI UNIVERSITY, 1971-76; S.S.A., I.I.SC., BANGALORE, 1976-79; S.S.A. SCIENTIST A AND

SCIENTIST B, P.I.D., 1980-88; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, ARTICLES - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, EDITING - 7.

215

SHRI S C SHARMA; (B. MAY 7, 1955),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - KANPUR '74; M.SC. CHEMISTRY, - KANPUR '76; CERTIFICATE IN FRENCH - DELHI '83; CERTIFICATE IN GERMAN - DELHI '84.

SPECIALIZATIONS : MEDICINAL CHEMISTRY; NATURAL PRODUCTS CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : J.R.F., C.D.R.I., LUCKNOW, 1976-80; S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1980-88; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : COMPILATION, CRITICAL EVALUATION, DRAFTHING AND EDITING OF ARTICLES ON RAW MATERIALS (NATURAL PRODUCTS) FOR 'THE WEALTH OF INDIA'.

LANGUAGES : HINDI, PUNJABI, ENGLISH, FRENCH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 1, POPULAR SCIENCE ARTICLES - 18.

PROFESSIONAL EXPERIENCE(IN YEARS) : RES. - 4, EDITING - 10.

216

DR CHANDER SHEKHAR; (B. SEPTEMBER 21, 1948),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJABI '69; M.SC. CHEMISTRY - PUNJABI '71; PH.D. CHEMISTRY - PUNJABI '77.

SPECIALIZATIONS : INORGANIC ANALYTICAL CHEMISTRY; SCIENCE EDITING; COMPUTER PROCESSING.

EXPERIENCE : S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1976-86; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : SYSTEMS ANALYSIS & DATA PROCESSING; DESK TOP PUBLISHING.

LANGUAGES : PUNJABI, HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, TEACHING - 3, DATA PROCESSING - 15.

217

DR HARBHAJAN SINGH; (B. JANUARY 8, 1953),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '73; M.SC. BOTANY - MEERUT '75; DIPLOMA IN MUSEOLOGY - MINISTRY OF ENVIRONMENT, GOVERNMENT OR INDIA '84; PH.D BOTANY - MEERUT '88

SPECIALIZATIONS : PLANT TAXONOMY; ECONOMIC BOTANY; MUSEOLOGY.

EXPERIENCE : TECHNICAL ASSISTANT, C.D.R.I, LUCKNOW, 1976-80; J.S.A. S.S.A. AND SCIENTIST B, P.I.D., 1980-90; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1990.

PRESENT ACTIVITIES : COLLECTION, IDENTIFICATION AND PRESENTATION OF RAW MATERIALS; ARTICLE WRITING FOR WEALTH OF INDIA.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, ARTICLES - 10, POPULAR ARTICLES IN SCIENCE REPORTER - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15.

218

DR M K SINGHAL; (B. DECEMBER 14, 1951),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '71; M.SC. BOTANY - AGRA '74; PH.D. BOTANY - AGRA '80.

SPECIALIZATIONS : PLANT BREEDING & GENETICS; SCIENCE EDITING.

EXPERIENCE : SEED PRODUCTION ASSISTANT, NATIONAL SEEDS CORPORATION, 1980-81; J.S.A., S.S.A. AND SCIENTIST B, P.I.D., 1985-90; SCIENTIST C, P.I.D. MAY, 1990.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, MARATHI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 9, POPULAR BOOK EDITED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, QUALITY CONTROL - 2, EDITING - 12.

219

MRS PARMOD SINGLA; (B. NOVEMBER 16, 1952),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. BOTANY - PUNJABI '75; CERTIFICATE IN FRENCH - PUNJABI '78.

SPECIALIZATIONS : CYTOGENETICS AND PLANT BREEDING; INFORMATION DISSEMINATION; SCIENCE EDITING.

EXPERIENCE : LECTURER, R.S.D. COLLEGE, FEROZEPUR, PUNJAB, 1975-76; RESEARCH SCHOLAR-CUM-DEMONSTRATOR, PUNJABI UNIVERSITY, PATIALA, 1976-81; LECTURER, STATE GOVERNMENT SCIENCE EDUCATION & RESEARCH

COLLEGE, JAGRAON, PUNJAB, 1981-82; SCIENTIST B, P.I.D., 1982-89; SCIENTIST C, P.I.D. SINCE APRIL, 1989.

PRESENT ACTIVITIES : INFORMATION DISSEMINATION AND SCIENCE WRITING.

LANGUAGES : HINDI, PUNJABI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, BOOK - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, TEACHING - 2, EDITING - 9.

220

SHRI J N P SINHA; (B. JUNE 15, 1939.),

TECHNICAL OFFICER (C), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - BIHAR '62; DIPLOMA IN JOURNALISM - GANESH SHANDAR VIDYARTHY INSTITUTE OF JOURNALISM, DELHI '65.

SPECIALIZATIONS : SCIENCE WRITING AND EDITING; SCIENTIFIC TRANSLATION; PRODUCTION AND PRINTING OF SCIENTIFIC PUBLICATIONS.

EXPERIENCE : J.L.A., C.M.R.S., DHANBAD, 1963-64; J.R.F., AND S.R.F., C.S.I.R., 1963-66; S.T.A., INDIAN LANGUAGES UNIT, C.S.I.R., 1966-71; SCIENTIST A AND SCIENTIST B, P.I.D., 1971-84; SCIENTIST C, P.I.D. SINCE JULY, 1984

PRESENT ACTIVITIES : SCIENCE WRITING, EDITING, TRANSLATION, PRODUCTION AND PRINTING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 250, POPULAR SCIENCE BOOKS - 11.

AWARDS & DISTINCTIONS : CHILDREN BOOK TRUST AWARD FOR SCIENCE WRITING, 1967.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING EFE - 26.

221

DR B SUBRAMANIAM; (B. FEBRUARY 1, 1952),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '71; M.SC. BOTANY - KURUKSHETRA '73; PH.D MICROBIOLOGY - DELHI '88.

SPECIALIZATIONS : GENETICS; MICROBIOLOGY; SCIENCE WRITING AND EDITING.

EXPERIENCE : LECTURER, ZAKIR HUSSAIN COLLEGE, NEW DELHI, 1977-78; S.S.A, SCIENTIST A AND SCIENTIST B, P.I.D., 1979-88; SCIENTIST C, P.I.D. SINCE SINCE FEBRUARY, 1988. PRESENT ACTIVITIES: SCIENCE WRITING AND EDITING.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, ARTICLES - 5, BOOKS -2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, TEACHING - 2, EDITING - 11.

222

DR(MRS) S SIVAKAMA SUNDARI; (B. MAY 12, 1945),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - ANNAMALAI '65; M.SC. CHEMSITRY - ANNAMALAI '67; PH.D. CHEMISTRY - MADRAS '78.

SPECIALIZATIONS : PHYSICAL CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : LECTURER, C.K.N. COLLEGE, CUDDALORE, TAMIL NADU, 1967-70; POOL OFFICER, S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, P.I.D., 1981-91; SCIENTIST EI, P.I.D. SINCE MARCH, 1991.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, TEACHING - 3, EDITING - 8.

223

SHRI NARENDRA KUMAR SUNEJA; (B. NOVEMBER 16, 1940),

TECHNICAL OFFICER (C), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.A. - DELHI '71; DIPLOMA IN PRINTING - N.R. INSTITUTE OF PRINTING TECHNOLOGY, ALLAHABAD '64.

SPECIALIZATIONS : PRINTING TECHNOLOGY.

EXPERIENCE : J.T.A. AND S.T.A., INSDOC, 1967-77; PRINTING OFFICER (B), P.I.D., 1977-82; TECHNICAL OFFICER (C), P.I.D. SINCE NOVEMBER, 1982.

PRESENT ACTIVITIES : PRINTING OF SCIENTIFIC JOURNALS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRINTING-24.

224

SHRI P D TYAGI; (B. AUGUST 20, 1952),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '72; M.SC. CHEMISTRY - AGRA '74.

SPECIALIZATIONS : CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A AND SCIENTIST B, P.I.D., 1976-88; SCIENTIST C, P.I.D. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING; INFORMATION DISSEMINATION.

LANGUAGES : HINDI, BENGALI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2, SCIENTIFIC BOOKS - 4, ARTICLES - 40, RADIO TALKS - 20, INVITED LECTURES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 11.

225

DR(MRS) VATSALA; (B. AUGUST 12, 1946),

SCIENTIST C, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '66; M.SC. BOTANY - MEERUT '68; PH.D. BOTANY - DELHI '76; ADVANCED DIPLOMA IN FRENCH - DELHI '73 CERTIFICATE COURSE IN RUSSIAN - DELHI '71.

SPECIALIZATIONS : BOTANY; SCIENCE EDITING.

EXPERIENCE : S.S.A. AND ASSISTANT EDITOR (B), P.I.D., 1981-88; SCIENTIST C, P.I.D. SINCE MAY, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH, FRENCH, RUSSIAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 9.

226

SHRI PALLAVA BAGLA; (B. OCTOBER 30, 1962),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC BOTANY - DELHI '84; M.SC BOTANY - DELHI '86.

SPECIALIZATIONS : SCIENCE WRITING AND EDITING; SCIENCE COMMUNICATION; ECOLOGY AND ENVIRONMENT; PHOTOGRAPHY; MOLECULAR BIOLOGY.

EXPERIENCE : J.R.F., I.I.SC., BANGALORE, 1986-87; RESEARCH ASSOCIATE, INDIAN INSTITUTE OF PUBLIC ADMINISTRATION, NEW DELHI, 1987-89; SELF EMPLOYED (JOURNALIST), 1989-90; SCIENTIST B, P.I.D. SINCE NOVEMBER, 1990.

PRESENT ACTIVITIES : POPULAR SCIENCE WRITING AND EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, TECH. REPORTS - 2, SCIENTIFIC BOOKS - 3, ARTICLES - 350, POPULAR SCIENCE BOOKS - 2, EDITED - 2, EDITED ENCYLOPAEDIA ON S&T - 1, PHOTOGRAPHS PUBLISHED - 500.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, SURVEY OF NAT. RES. - 2, EDITING - 3, SCIENCE COMMUNICATION - 5.

227

DR RADHEY SHYAM BENIWAL; (B. JULY 1, 1959),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - RAJASTHAN '82; PH.D. PHYSICS - RAJASTHAN 87.

SPECIALIZATIONS : SOLAR ENERGY; HEAT TRANSFER, ELECTRONICS & TELECOMMUNICATION; SCIENCE EDITING.

EXPERIENCE : J.R.F. AND S.R.F., RAJASTHAN UNIVERSITY, 1983-87; MANAGING EDITOR, INSTITUTE OF ELECTRONICS & TELECOMMUNICATION ENGINEERING, NEW DELHI, 1987-90; SCIENTIST B, P.I.D. SINCE JULY, 1990.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES PAPER - 28.

AWARDS & DISTINCTIONS : LIFE MEMBER, INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS (INDIA).

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 5, EDITING - 6.

228

DR N B BHOI; (B. JUNE 1, 1963),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY - PUNE '88.

SPECIALIZATIONS : ORGANIC CHEMISTRY.

EXPERIENCE : R.A., NATIONAL SUGAR INST KANPUR; SCIENTIST B, P.I.D. SINCE NOVEMBER, 1990.

PRESENT ACTIVITIES : SCIENCE EDITING; RESEARCH ON NATURAL PRODUCTS AND BIO-ORGANIC SYNTHESIS.

LANGUAGES : MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPER - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : RES. - 2, EDITING - 3.

229

SHRI G CHANDRASEKAR; (B. JUNE 30, 1966),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. ZOOLOGY - MADRAS '87; M.SC. ZOOLOGY - MADRAS '89.

SPECIALIZATIONS : MUSCLE BIOCHEMISTRY; SCIENCE EDITING.

EXPERIENCE : J.R.F., JAWAHARLAL NEHRU UNIVERSITY, 1989-91; SCIENTIST B, P.I.D. SINCE FEBRUARY, 1992.

PRESENT ACTIVITIES : PUBLICATION OF INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY.

LANGUAGES : TAMIL, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 2, EDITING - 2.

230

MRS PARVINDER S CHAWLA; (B. MAY 23, 1966),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC(HONS) ZOOLOGY - DELHI '87; M.BIOTECH. - A.I.I.M.S., DELHI '89.

SPECIALIZATIONS : BIOTECHNOLOGY; RECOMBINANT DNA TECHNOLOGY; HYBRIDOMA TECHNOLOGY; SCIENCE EDITING.

EXPERIENCE : SCIENTIST B, P.I.D. SINCE JANUARY, 1991.

PRESENT ACTIVITIES : POPULAR SCIENCE WRITING AND EDITING.

LANGUAGES : PUNJABI, HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : POPULAR SCIENCE BOOKS EDITED - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 1, EDITING - 2.

231

SHRI KRISHAN NARAIN GAMBHIR; (B. JULY 1, 1943),

ART OFFICER (B), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : NATIONAL CERTIFICATE IN COMMERCIAL ART - DELHI POLYTECHNIC '64; NATIONAL DIPLOMA IN COMMERCIAL ART - BOARD OF TECHNICAL EDUN.,DELHI '69.

SPECIALIZATIONS : POSTER DESIGN; ILLUSTRATIONS OF TECHNICAL PUBLICATIONS; TECHNICAL JOURNAL GRAPH.

EXPERIENCE : JR. ARTIST, ARTIST, SR. ART ASSTT. AND ART OFFICER (A), P.I.D., 1968-86; ART OFFICER (B), P.I.D. SINCE JUNE, 1986.

PRESENT ACTIVITIES : GRAPHICS FOR SCIENTIFIC JOURNALS AND MUSEUM SPECIMAN LEGENED.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : MECHANICAL JOURNAL GRAPHICS - 23.

232

DR P K INGLE; (B. JUNE 25, 1960),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY - MARATHWADA '84; D.H.E. - MARATHWADA '85; PH.D. CHEMISTRY - MARATHWADA '88.

SPECIALIZATIONS : PHYSICAL CHEMISTRY.

EXPERIENCE : JR. LECTURER, DEOGIRI COLLEGE AURANGABAD, 1984; LECTURER, S.B.E.S. COLLEGE OF SCIENCE, AURANGABAD, 1986-88; EXECUTIVE CHEMIST, O.N.G.C., 1988-89; INSPECTOR, MINISTRY OF HOME AFFAIRS, GOVT. OF INDIA, NEW DELHI, 1989-91; SCIENTIST B, P.I.D. SINCE JANUARY, 1991.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : MARATHI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPER - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 2, EDITING - 3, APP. RES. - 3.

233

SHRI R S JAYASOMU; (B. JUNE 9, 1964),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - MADRAS '84; M.SC. ZOOLOGY - MADRAS '84; M.PHIL. ZOOLOGY - MADRAS '89.

SPECIALIZATIONS : ESTUARINE AQUACULTURE; INVERTEBRATE REPRODUCTION; SCIENCE EDITING.

EXPERIENCE : TECH. ASST., MADRAS UNIVERSITY, 1989; SCIENTIST B, P.I.D. SINCE DECEMBER, 1989.

PRESENT ACTIVITIES : ZOOLOGICAL MONOGRAPHS AND ARTICLES.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : MONOGRAPHS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : SURVEY OF NAT. RESOURCES - 4.

234

SHRI HASAN JAWAID KHAN; (B. NOVEMBER 5, 1963),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. ZOOLOGY - A.M.U. '87; DIPLOMA IN JOURNALISM, BHARTIYA VIDYA BHAWAN, NEW DELHI '83.

EXPERIENCE : J.R.F. P.I.D. (CSIR) 1988-89; SUB EDITOR, P.I.D. (ICAR), 1989-90; SCIENTIST B, P.I.D. SINCE SEPTEMBER, 1990.

PRESENT ACTIVITIES : SCIENCE WRITING AND EDITING. LANGUAGES: URDU, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 5.

235

SHRI KAUSHAL KISHORE; (B. APRIL 2, 1952),

TECHNICAL OFFICER (B), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC - MEERUT '71; L.L.B. - DELHI '74; PG DIPLOMA IN JOURNALISM - BHARTIYA VIDYA BHAWAN, DELHI '75; M.A. SOCIOLOGY - MEERUT '82; M.SC. BOTANY - MEERUT, '84; PG DIPLOMA IN BOOKS PUBLISHING - DELHI '90.

SPECIALIZATIONS : BOOK PUBLISHING; BOTANY.

EXPERIENCE : COPY HOLDER, PROOF READER, J.T.A., S.T.A. AND PRODUCTION OFFICER (A), P.I.D., 1971-88; PRODUCTION OFFICER (B), P.I.D. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : PRODUCTION OF BOOKS, PERIODICALS ETC.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLE - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODUCTION - 21.

236

SHRI JAG MOHAN LAL LUTHRA; (B. JULY 10, 1939),

TECHNICAL OFFICER (B), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : NATIONAL CERTIFICATE ART - DELHI '68; INTERMEDIATE GRADE DRAWING EXAM MAHARASHTRA '69; ART DIPLOMA IN CHITRAKALA & RANJANKALA - EDUCATION DEPARTMENT, RAJASTHAN '74.

EXPERIENCE : DARK ROOM ASSISTANT, PHOTO ARTIST, ASST LAYOUT ARTIST, S.T.A. AND ART OFFICER (A), INSDOC, 1960-90; TECHNICAL OFFICER (B) P.I.D. SINCE APRIL, 1990.

PRESENT ACTIVITIES : LAYOUT ARTIST, ART WORK.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : ART WORK - 33.

237

SHRI H B PANT; (B. JANUARY 3, 1939),

TECHNICAL OFFICER (B), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : HIGH SCHOOL - U.P. '55.

SPECIALIZATIONS : PRINTING.

EXPERIENCE : HELD DIFFERENT JUNIOR POSITIONS IN INSDOC DURING 1955 TO 1978; S.T.A., TECHNICAL OFFICER (A) AND TECHNICAL OFFICER (B), INSDOC, 1978-88; TECHNICAL OFFICER (B), P.I.D. SINCE OCTOBER, 1988.

PRESENT ACTIVITIES : SUPERVISION OF PRINTING JOB.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPROGRAPHY - 37.

238

SHRI NAKUL PARASHAR; (B. NOVEMBER 14, 1966),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) PHYSICS - J.M.I. '87; M.SC. PHYSICS - J.M.I. '89.

SPECIALIZATIONS : SOFTWARE APPLICATIONS.

EXPERIENCE : LECTURER, DELHI INSTITUTE OF TECHNOLOGY, DELHI UNIVERSITY, 1992; LECTURER, DEPARTMENT OF PHYSICS, DELHI COLLEGE, 1992; SCIENTIST B, P.I.D. SINCE DECEMBER, 1992.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, BENGALI, URDU, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 2, SCIENTIFIC BOOKS - 1, ARTICLES - 12, POPULAR SCIENCE BOOKS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES - 3, APPLIED RES - 1, DESIGN - 3, PRODUCTION - 3, TEACHING - 2, EDITING - 5, COMPUTER PROC. - 5.

239

DR SUNDARESAN J PILLAI; (B. JANUARY 16, 1959),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) PHYSICS - KERALA '80; M.SC OCEANOGRAPHY - COCHIN '82; PH.D OCEANOGRAPHY - COCHIN '89.

SPECIALIZATIONS : COASTAL OCEANOGRAPHY; REMOTE SENSING APPLICATIONS ON MARINE RESOURCES; WETLAND STUDIES; RESOURCE MAPPING.

EXPERIENCE : R.A., ENVIRONMENT CENTRE, TRISSUR, 1989-90; R.A. AND PROJECT SCIENTIST, CENTRE FOR EARTH SCIENCE STUDIES, TRIVANDRUM, 1990-92; SCIENTIST B, P.I.D. SINCE AUGUST, 1992.

PRESENT ACTIVITIES : EDITING; RESEARCH ON COASTAL ECO SYSTEM AND IMPACT OF SEA LEVEL RISE.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 21, TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 5, APPLIED RES. - 9, SURVEY OF NAT. RES. - 2.

240

SHRI A S K V S SHARMA; (B. OCTOBER 2, 1960),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - MYSORE '81; M.SC. ZOOLOGY - MYSORE '83.

SPECIALIZATIONS : RADIOBIOLOGY; SCIENCE WRITING AND EDITING.

EXPERIENCE : EXTENSION ASSISTANT, MYSORE CO-OPERATIVE MILK PRODUCERS UNION LTD., 1984-85; RESEARCH FELLOW, DEPARTMENT OF RADIOBIOLOGY, RADKASTURBA MEDICAL COLLEGE, MANIPAL, 1985-89; SCIENTIST B, P.I.D. SINCE JULY, 1990.

PRESENT ACTIVITIES : SCIENCE EDITING, WRITING AND REPORTING.

LANGUAGES : KANNADA, TAMIL, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES PAPER - 3, ARTICLES - 60, POPULAR SCIENCE BOOK - 1, RADIO TALKS, FEATURES - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, EDITING - 5, EXTENSION - 1.

241

DR(MRS) DARSHAN SHARMA; (B. JANUARY 11, 1951),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.SC. BOTANY - KURUKSHETRA '74; PH.D. BOTANY - KURAKSHETRA '79.

SPECIALIZATIONS : INFORMATION SCIENCE.

EXPERIENCE : J.R.F., S.R.F., J.S.A., S.S.A. AND SCIENTIST A, N.B.R.I., 1975-86; SCIENTIST B, P.I.D. SINCE FEBRUARY, 1986.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES PAPERS - 10, ARTICLES - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 6, EDITING - 12.

242

SHRI PRADEEP KUMAR SHARMA; (B. JUNE 27, 1955),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '76; M.SC. BOTANY - MERUT '83.

SPECIALIZATIONS : MEDICINAL & AROMATIC PLANTS; EDITING AND PRODUCTION OF SCIENTIFIC PUBLICATIONS.

EXPERIENCE : COPY HOLDER AND PROOF READER, P.I.D., 1976-88; (ALSO WORKED AS COPY EDITOR, INDIRA GANDHI NATIONAL OPEN UNIVERSITY, 1987-88); SCIENTIST B, P.I.D. SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : EDITING AND PRODUCTION OF SCIENTIFIC PUBLICATIONS.

LANGUAGES : HINDI, ENGLISH, RUSSIAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 3, PRODUCTION - 14.

243

DR KARAMPAL SINGH; (B. OCTOBER 1, 1958),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '78; M.SC BOTANY - MEERUT '80; PH.D BOTANY - MEERUT '86.

SPECIALIZATIONS : MYCOLOGY AND PLANT PATHOLOGY.

EXPERIENCE : SENIOR RESEARCH ASSISTANT AND SENIOR RESEARCH OFFICER, C.S.B., BANGALORE, 1987-92; SCIENTIST B, P.I.D. SINCE JUNE, 1992.

PRESENT ACTIVITIES : COMPILING AND EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES PAPERS - 18, REVIEW -3, REPORTS - 3, ARTICLES - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5.

244

SHRI S V SOCRATES; (B. JANUARY 29, 1943),

TECHNICAL OFFICER (B), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC - MYSORE '64; P.G. DIPLOMA IN JOURNALISM - BHARATIYA VIDYA BHAVAN '71; P.G. DIPLOMA IN COMPUTER SCIENCE - AIMO '85; DIPLOMA IN RUSSIAN '71.

SPECIALIZATIONS : ELECTRONIC COMPOSING.

EXPERIENCE : J.T.A. AND S.P.A., INSDOC, 1978-88; TECHNICAL OFFICER (A), P.I.D., 1988-91; TECHNICAL OFFICER (B), P.I.D. SINCE DECEMBER, 1991.

PRESENT ACTIVITIES : ELECTRONIC COMPOSING; DESK TOP PUBLISHING OF SCIENTIFIC JOURNALS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROC - 2, COMPOSING PRINTING - 25, DTP - 3.

245

MRS NEELU SRIVASTAVA; (B. DECEMBER 17, 1964),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC - AGRA '83; M.SC CHEMISTRY - AGRA '85; M PHIL. CHEMISTRY - AGRA '86.

SPECIALIZATIONS : INORGANIC CHEMISTRY; SCIENCE EDITING.

EXPERIENCE : J.R.F. AND S.R.F., P.I.D., 1989-92; SCEINTIST B, P.I.D. SINCE JUNE, 1992.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPER - 1, ARTICLES - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 2, EDITING - 6.

246

SHRI C M SUNDRAM; (B. MARCH 24, 1956),

TECHNICAL OFFICER (B), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN PRINTING TECHNOLOGY - S J P POLYTECH.,BANGALORE '77.

SPECIALIZATIONS : PLATE PROCESSING FOR OFFSET PRINTING MACHINES.

EXPERIENCE : APPRENTICE, NANDI PRINTERS PVT. LTD., BANGALORE, 1978-79; PRINTER, UNIVERSAL GRAPHIC METAL PRINTERS, BANGALORE, 1979-81; SENIOR PRINTING ASSISTANT AND PRINTING OFFICER, INSDOC, NEW DELHI, 1981-87; TECHNICAL OFFICER (A), P.I.D., 1987-88; TECHNICAL OFFICER (B), P.I.D. SINCE NOVEMBER, 1988.

PRESENT ACTIVITIES : PRINTING.

LANGUAGES : TAMIL, HINDI, KANNADA, TELUGU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 12.

247

DR SHAILENDRA TRIPATHI; (B. DECEMBER 28, 1961),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - GORAKHPUR '80; M.SC. INORGANIC CHEMISTRY - B.H.U. '83; PH.D. INORGANIC CHEMISTRY - B.H.U. '89.

SPECIALIZATIONS : COORDINATION CHEMISTRY; BIOINORGANIC CHEMISTRY; SCIENCE POPULARIZATION.

EXPERIENCE : S.R.F. AND R.A., CHEMISTRY DEPARTMENT, B.H.U., VARANASI, 1988-92; ASSISTANT PROFESSOR, CHEMISTRY DEPARTMENT, H.A.U., HISAR, 1993-93; SCIENTIST B, P.I.D. SINCE APRIL 1993.

PRESENT ACTIVITIES : POPULAR SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 38, ARTICLES - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, APP. RES. - 1, TEACHING - 1, EDITING - 1.

248

MRS P L VASHIST; (B. OCTOBER 30, 1937),

SALES & DISTRIBUTION OFFICER (B), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.A. HISTORY - B.H.U. '62.

SPECIALIZATIONS : SALES PROMOTION OF BOOKS.

EXPERIENCE : SALES & DISTRIBUTION OFFICER (B), P.I.D. SINCE JUNE, 1985.

PRESENT ACTIVITIES : SALES PROMOTION OF SCIENTIFIC JOURNALS.

LANGUAGES : HINDI, ENGLISH.

249

SHRI SAWLANG BORSINGH WANN; (B. JULY 8, 1964),

SCIENTIST B, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC ZOOLOGY - NORTH-EASTERN HILL '87; M.SC BIO-CHEMISTRY - NORTH-EASTERN HILL '89.

SPECIALIZATIONS : BIOCHEMISTRY; PROTEIN CHEMISTRY.

EXPERIENCE : SCIENTIST B, P.I.D. SINCE FEBRUARY, 1992.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : KHASI, HINDI, ENGLISH, FRENCH.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 1, EDITING - 1.

250

SHRI A M AGGARWAL; (B. NOVEMBER 29, 1951),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN PHOTOGRAPHY - PHOTOGRAPHY INSTITUTE FOR THE DEAF, NATIONAL DIPLOMA IN ART - A.I.C.T.E. '76.

SPECIALIZATIONS : VISUALISATION CRAFTS & ARTS; PHOTOGRAPHY.

EXPERIENCE : TECHNICAL OFFICER (A), P.I.D. SINCE NOVEMBER, 1987.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PHOTOGRAPHY - 6.

251

SHRI MOHAMMAD ASIF AKHTAR; (B. JANUARY 20, 1961),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC - BHAGALPUR '80; M.B.A. MARKETING - MAGADH '84.

SPECIALIZATIONS : SALES MANAGEMENT OF SCIENTIFIC PUBLICATIONS.

EXPERIENCE : BUSINESS EXECUTIVE, WORLD PUBLICITY CORPORATION DELHI 1984-89; ASSTT. ADVT. MANAGER, DAINIK BHASKAR, 1989-90; TECHNICAL OFFICER (A), P.I.D. SINCE MARCH, 1990.

PRESENT ACTIVITIES : SALES AND DISTRIBUTION OF POPULAR SCIENCE JOURNALS.

LANGUAGES : URDU, HINDI, ENGLISH, PERSIAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : SALES MARKETING - 9.

252

SHRI ARUN KUMAR ANAND; (B. FEBRUARY 7, 1950),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN PHOTOGRAPHY - PHTOTGRAPHY INSTITUTE FOR THE DEAF, NEW DELHI '66.

EXPERIENCE : PHOTO ASSTT., INSDOC, 1971-77; J.T.A., P.I.D., 1977-82; S.T.A. AND TECHNICAL OFFICER (A), INSDOC, 1982-87; TECHNICAL OFFICER (A), P.I.D. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : HALF TONE AND LINE NEGATIVE MAKING.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODUCTION - 20 YEARS.

253

SHRI K K BHATNAGAR; (B. AUGUST 12, 1939),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : NATIONAL CERTIFICATE IN COMMERCIAL ART - A.I.C.T.E. '62; I.G.D. PICTORIAL AND COMMERCIAL ART - MAHARASHTRA '75.

SPECIALIZATIONS : GRAPHIC ART AND DESIGNING.

EXPERIENCE : DRAFTSMAN, ARTIST-CUM-DRAFTSMAN AND SENIOR ART ASSISTANT, P.I.D., 1963-88; TECHNICAL OFFICER (A), P.I.D. SINCE MAY, 1988.

PERSENT ACTIVITIES : GRAPHIC ART AND DESIGNING.

LANGUAGES : HINDI, ENGLISH.

AWARDS & DISTINCTIONS : CERTIFICATE OF MERIT IN INTERNATIONAL POSTER COMPETITION, LATHAM FOUNDATION, (USA).

PROFESSIONAL EXPERIENCE(IN YEARS) : GRAPHIC ART - 31.

254

SHRI SWATANTRA BHUSHAN; (B. JUNE 15, 1947),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.A. - MEERUT '72.

EXPERIENCE : DARK ROOM ASSTT, MINISTRY I & B, NEW DELHI, 1966-69; PHTO ASSTT, J.T.A. AND S.T.A., INSDOC 1969-87; TECHNICAL OFFICER (A), P.I.D. SINCE SEPTEMBER, 1987.

PERSENT ACTIVITIES : PROCESS CAMERA INCHARGE. LANGUAGES: HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PHOTO PROCESSING - 27.

255

SHRI PHOOL CHAND; (B. JULY 8, 1945),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.A. - MEERUT '74.

SPECIALIZATIONS : SALES PROMOTION & PROCUREMENT OF ADVERTISEMENTS.

EXPERIENCE : S.S.A., P.I.D., 1983-87; TECHNICAL OFFICER (A), P.I.D. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : SALES PROMOTION OF POPULAR SCIENCE JOURNALS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : SALES PROMOTION - 10.

256

SHRI LOKESH KUMAR CHOPRA; (B. OCTOBER 18, 1959),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '80; P G DIPLOMA IN MARKETING & SALES MANAGEMENT - Y.M.C.A., NEW DELHI '85.

EXPERIENCE : TECHNICAL REPRESENTATIVE, SHRI RAM INST. OF INDUSTRIAL RESEARCH, 1981-86; SENIOR SALES ASSISTANT, I.C.A.R., 1986-90; TECHNICAL OFFICER (A), P.I.D. SINCE APRIL, 1990.

PRESENT ACTIVITIES : SALES PROMOTION & DISTRIBUTION OF "SCIENCE REPORTER"; PROCUREMENT OF ADVERTISEMENT FOR POPULAR SCIENCE JOURNALS.

LANGUAGES : HINDI, ENGLISH, PUNJABI.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 1, SALES MARKETING - 12.

257

SHRI RAKESH CHOPRA; (B. JUNE 27, 1947),

SCIENTIST A, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

258

SHRI PUSHKAR DAS; (B. MAY 4, 1939),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : MATRIC - ALLAHABAD '54.

EXPERIENCE : L.D.C., JR. STENO CUM V.T. OPERATOR, COLD COMPOSITOR, S.P.A. AND TECHNICAL OFFICER (A), INSDOC, 1959-88; TECHNICAL OFFICER (A), P.I.D. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : COLD COMPOSITING.

LANGUAGES : HINDI, PUNJABI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : ADMN. - 29, COMPOSITING - 34.

259

MRS SUPRIYA GUPTA; (B. MARCH 11, 1956),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B SC - DELHI '75; P G DIPLOMA IN JOURNALISM - BHARATIYA VIDYA BHAVAN '80; ADVANCE DIPLOMA IN ITALIAN LANGUAGES - DELHI '81; CORSO MEDIO - UNIVERSITY FOR FOREIGNERS, ITALY '82.

SPECIALIZATIONS : PRODUCTION & PRINTING OF SCIENTIFIC & TECHNICAL PUBLICATIONS;

EXPERIENCE : COPY HOLDER, PROOF READER, J.T.A. AND S.T.A., P.I.D., 1977-92; TECHNICAL OFFICER (A), P.I.D. SINCE FEBRUARY, 1992.

PRESENT ACTIVITIES : PRODUCTION OF SCIENTIFIC & TECHNICAL PUBLICATIONS.

LANGUAGES : BENGALI, HINDI, ENGLISH, ITALIAN.

VISITED : ITALY.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODUCATION - 16.

260

SHRI DAVINDER KAPOOR; (B. SEPTEMBER 16, 1951),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.A. - DELHI '73.

SPECIALIZATIONS : INPUT DATA PREPARATION FOR SCIENTIFIC JOURNALS.

EXPERIENCE : JUNIOR STENO, KEY BOARD OPERATOR AND SENIOR PRINTING ASSISTANT, P.I.D., 1974-87; TECHNICAL OFFICER (A), P.I.D. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : INPUT DATA PREPARATION FOR SCIENTIFIC JOURNALS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROCESSING - 14.

261

SHRI SHYAM KAPOOR; (B. MARCH 11, 1951),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.A. - DELHI '73.

SPECIALIZATIONS : INPUT DATA PREPARATION FOR SCIENTIFIC PERIODICALS; COMPUTERISED COMPOSING.

EXPERIENCE : L.D.C., PRINTING ASSISTANT AND SENIOR PRINTING ASSISTANT, P.I.D., 1969-87; TECHNICAL OFFICER (A), P.I.D. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : INPUT DATA PREPARATION ON MONOTYPE SYSTEM 517.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROCESSING - 16.

262

SHRI RAM KISHAN KAUSHIK; (B. DECEMBER 10, 1940),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : MATRIC - PUNJAB '59.

SPECIALIZATIONS : COMPOSING.

EXPERIENCE : L.D.C., U.D.C., J.T.A. AND S.P.A., INSDOC, 1960-88; TECHNICAL OFFICER (A), P.I.D. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : COMPOSING

LANGUAGES : HINDI, ENGLISH

263

SHRI P N KHANNA; (B. MARCH 3, 1953),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : INTERMEDIATE - U P.

SPECIALIZATIONS : PHOTO COMPOSING.

EXPERIENCE : J.T.A. AND S.T.A., P.I.D., 1978-88; TECHNICAL OFFICER (A), P.I.D., SINCE APRIL, 1988.

PRESENT ACTIVITIES : PHOTO COMPOSING.

LANGUAGES : HINDI, ENGLISH

PROFESSIONAL EXPERIENCE(IN YEARS) : PHOTO COMPOSING - 15.

264

SHRI RAM KUMAR KHANNA; (B. JUNE 28, 1943),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : HIGHER SECONDARY - C.B.S.E. '62.

SPECIALIZATIONS : DATA PROCESSING; PRODUCTION; SCIENCE COMMUNICATION.

EXPERIENCE : L.D.C., JR. STENOGRAPHER, KEYBOARD OPERATOR AND S.T.A., P.I.D., 1970-87; TECHNICAL OFFICER (A), P.I.D. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : COMPOSITING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPOSITION - 24.

265

SHRI C P S KHARI; (B. NOVEMBER 15, 1944),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.A - DELHI '73.

EXPERIENCE : L.D.C., U.D.C. AND SENIOR PRINTING ASSISTANT, INSDOC, 1962-88; TECHNICAL OFFICER (A), P.I.D. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : DATA ENTRY.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPOSITING - 30.

266

SHRI DHARAM VIR KHURANA; (B. OCTOBER 23, 1939),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN PHOTOGRAPHY - PHOTOGRAPHY INSTITUTE FOR THE DEAF '62.

SPECIALIZATIONS : PAGE MAKING.

EXPERIENCE : PHOTO ASSTT, J.T.A., S.T.A. AND TECHNICAL OFFICER (A), INSDOC, 1978-88; TECHNICAL OFFICER (A), P.I.D. SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : PAGE MAKING

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODUCTION - 24.

267

SHRI KAMAL MEHRA; (B. JUNE 8, 1948),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : PASSED VIII STANDARD.

SPECIALIZATIONS : PHOTOGRAPHY; MICROGRAPHY; REPROGRAPHY.

SPECIALIZATIONS : PHOTOGRAPHY; MICROGRAPHY; REPROGRAPHY.

EXPERIENCE : D.R.A., REPROGRAPHY ASSISTANT AND SENIOR PRINTING ASSISTANT, INSDOC, 1969-89; TECHNICAL OFFICER (A), P.I.D. SINCE SEPTEMBER, 1990.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PHOTOGRAPHY - 24, REPROGRAPHY - 24, MICROGRAPHY - 24.

268

SHRI P R MEHTA; (B. NOVEMBER 20, 1945),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : MATRICULATION - PANJAB '62; DRAUGHTSMANSHIP MECHANICAL - DELHI '65; INTERMEDIATE GRADE DRAWING EXAM - BOMBAY '71; DIPLOMA IN COMMERCIAL ART - BOARD OF TECHNICAL EDUCATION, DELHI '78.

SPECIALIZATIONS : LINE DRAWING.

EXPERIENCE : TRACER, C.R.R.I., NEW DELHI, 1968-74; ASSISTANT DRAUGHTSMAN, ART ASSISTANT AND SENIOR ART ASSISTANT, P.I.D., 1974-88; TECHNICAL OFFICER (A), P.I.D. SINCE MARCH, 1988.

PRESENT ACTIVITIES : PROCESSING OF ILLUSTRATIONS FOR DIFFERENT SCIENTIFIC JOURNALS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PROCESSING OF ILLUSTRATION - 28.

269

SHRI O P MITTAL; (B. AUGUST 8, 1936),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : M.A. HINDI - H.P. '78; P G DIPLOMA IN JOURNALISM - RAJASTHAN '80.

SPECIALIZATIONS : EDITING OF SCIENCE JOURNALS IN HINDI.

EXPERIENCE : L.D.C., C.I.E., GOVT. OF INDIA, 1954-55; HINDI TYPIST, N.D.M.C., 1955-56; HINDI TYPIST, I.B.M., GOVT. OF INDIA, 1956-58; HINDI TYPIST, U.D.C., J.T.A. AND SENIOR EDITORIAL ASSISTANT, C.S.I.R., 1958-88; TECHNICAL OFFICER (A), P.I.D. SINCE JUNE, 1988.

PRESENT ACTIVITIES : SCIENCE POPULARISATION.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 13, SALES MARKETING - 5, ADMINISTRATION - 15.

270

SHRI JAG MOHAN; (B. FEBRUARY 2, 1949),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : PRE-MEDICAL - PANJAB '66.

SPECIALIZATIONS : COLD COMPOSITING.

EXPERIENCE : L.D.C., IBM TYPIST, COLD COMPOSITOR, S.P.A. AND TECHNICAL OFFICER (A), INSDOC, 1968-88; TECHNICAL OFFICER (A), P.I.D. SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : COLD COMPOSITION.

LANGUAGES : HINDI, PANJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : COLD COMPOSITION - 11.

271

SHRI YOGENDRA NATH; (B. JANUARY 15, 1963),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - KANPUR '86.

SPECIALIZATIONS : SALES AND DISTRIBUTION OF SCIENTIFIC PUBLICATIONS.

EXPERIENCE : JR. SALES ASSISTANT, ICAR, 1991-92; TECHNICAL OFFICER (A), P.I.D. SINCE DECEMBER, 1992.

PRESENT ACTIVITIES : SALES AND DISTRIBUTION OF PID PUBLICATIONS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : SALES MARKETING - 7.

272

SHRI KHUBI RAM; (B. FEBRUARY 10, 1949),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : TRAINING COURCE OF KORESTAT COPIER - KORES INDIA LIMITED NEW DELHI '76; REFRESHER COURSE IN REPROGRAPHY - SIS, NEW DELHI '84.

SPECIALIZATIONS : REPROGRAPHY.

EXPERIENCE : J.T.A. AND S.T.A., P.I.D., 1978-89; TECHNICAL OFFICER (A), P.I.D. SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : REPROGRAPHY.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPROGRAPHY - 15.

273

SHRI RADHEY SHAM; (B. FEBRUARY 27, 1937),

SCIENTIST A, PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : INTERMEDIATE - AGRA '68.

SPECIALIZATIONS : PRODUCTION OF PUBLICATIONS.

EXPERIENCE : COPY HOLDER, PROOF READER, J.T.A. AND S.P.A., P.I.D., 1960-87; SCIENTIST A, P.I.D. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : PLANNING AND PRODUCTION OF PUBLICATIONS.

LANGUAGES : HINDI, PUNJABI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODUCTION - 33.

274

MRS NEERU SHARMA; (B. AUGUST 14, 1959),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : BACH. FINE ARTS - DELHI '82.

SPECIALIZATIONS : APPLIED ART; ILLUSTRATIONS; ADVERTISING.

EXPERIENCE : ARTIST, HORA ART CENTRE, 1982; VISUALISER, RAINBOW AGENCY, 1982; ARTIST (B), NATIONAL INFORMATIC CENTRE (DOE), 1982-89; TECHNICAL OFFICER (A), P.I.D. SINCE NOVEMBER, 1989.

PRESENT ACTIVITIES : GRAPHIC ART/APPLIED ART, ILLUSTRATION.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : ART AND GRAPHIC ART - 10

275

SHRI O P SHARMA; (B. JUNE 1, 1936),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : SASITYA RATNA HINDI LITERATURE '59; M.A. ENGLISH MEERUT '69; ADVANCE COURSE IN JAPANESE LANGUAGE - JAPAN INFORMATION CENTRE, NEW DELHI '77.

SPECIALIZATIONS : REPROGRAPHY; OFFSET PRINTING.

EXPERIENCE : D.R.A., ASST. PHOTOGRAPHER, J.T.A, S.T.A. AND PRINTING OFFICER (A), INSDOC, 1981-86; TECHNICAL OFFICER (A), P.I.D. SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : OFFSET PRINTING AND REPOROGRAPHY.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPROGRAPHY - 31.

276

SHRI BACHITTER SINGH; (B. FEBRUARY 28, 1937),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : MATRIC - 81.

SPECIALIZATIONS : PLATE MAKING & PROCESSING.

EXPERIENCE : J.T.A., S.T.A. AND TECHNICAL OFFICER (A), INSDOC, 1978-87; TECHNICAL OFFICER (A), P.I.D. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : PLATE MAKING

LANGUAGES : HINDI, PUNJABI, URDU, ENGLISH.

PROCESSIONAL EXPERIENCE(IN YEARS) : TECHNICAL DEV. - 15.

277

SHRI JHINGURIA SINGH; (B. JULY 5, 1947),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '73; SR. CERTIFICATE IN AGRICULTURAL STATISTICS - ICAR, NEW DELHI '77; P G DIPLOMA IN BOOK PUBLISHING - DELHI '88.

SPECIALIZATIONS : BOOK PRODUCTION.

EXPERIENCE : SCIENCE TEACHER, SARVODAY SIKSHA SADAN, AGRA, 1967-71; COPY HOLDER, LAYOUT ASSISTANT, SENIOR ART ASSISTANT, P.I.D., 1978-92; TECHNICAL OFFICER (A), P.I.D. SINCE JANUARY, 1992.

PRESENT ACTIVITIES : BOOK PRODUCTION.

LANGUAGES : HINDI, ENGLISH, FRENCH, CHINESE.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRODUCTION - 20.

278

SHRI MOHAN SINGH; (B. FEBRUARY 2, 1940),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : NATIONAL TRADE CERTIFICATE IN DRAWING & PAINTING - PUSA, NEW DELHI '62; I.G.D. PICTORIAL AND COMMERCIAL ART - MAHARASHTRA '75; DIPLOMA IN COMMERCIAL ART - BOARD OF TECH. EDN., NEW DELHI '78; INTER - U.P. '83.

SPECIALIZATIONS : OIL PAINTING; COMMERCIAL ART.

EXPERIENCE : SBP ARTIST, NATIONAL ZOOLOGICAL PARK, NEW DELHI, 1965-74; ARTIST AND SENIOR ART ASSISTANT, P.I.D., 1974-88; TECHNICAL OFFICER (A), P.I.D. SINCE JANUARY, 1988.

PRESENT ACTIVITIES : GRAPHIC ART & DESIGNING.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : GRAPHIC ART - 28.

279

SHRI A K SRIVASTAVA; (B. NOVEMBER 8, 1963),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '85; P.G. DIPLOMA IN MARKETING & SALES MANAGEMENT - D.S.M.S., NEW DELHI '86; M.B.A. MARKETING MANAGEMENT - I.M.T. '90.

SPECIALIZATIONS : MARKETING MANAGEMENT; INTERNATIONAL MARKETING; COMPUTER APPLICATIONS.

EXPERIENCE : SALES EXECUTIVE, SURYA PUBLICATIONS, GHAZIABAD, 1984-86; BUSINESS DEVELOPMENT EXECUTIVE, E.T. JOURNALS, NEW DELHI, 1986-89; SALES PROMOTIONS OFFICER, I.C.A.R., NEW DELHI, 1989-92; TECHNICAL OFFICER (A), P.I.D. SINCE APRIL, 1992.

PRESENT ACTIVITIES : MARKETING OF SCIENTIFIC PUBLICATIONS.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : SALES MARKETING - 9.

280

SHRI T R SRIVATSAN; (B. APRIL 18, 1950),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN PRINTING TECHNOLOGY, REGIONAL SCHOOL OF PRINTING MADRAS '72.

SPECIALIZATIONS : OFFSET LITHOGRAPHIC PRINTING.

EXPERIENCE : JR. OPERATOR, SR. OPERATOR, BANK NOTE PRESS, DEWAS, 1974-77; J.T.T. AND S.T.A., P.I.D., 1977-86; PRESS MEANAGER, I.C.M.R., 1986-87; TECHNICAL OFFICER (A), P.I.D. SINCE DECEMBER, 1987.

PRESENT ACTIVITIES : PRINTING OF PERIODICALS & PUBLICATIONS.

LANGUAGES : TAMIL, HINDI, PUNJABI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRINTING - 16, ADMINISTRATION - 2.

281

SHRI M THIYAGARAJAN; (B. JANUARY 8, 1938),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : S.S.L.C. - BOARD OF SECONDARY EDUCATION, MADRAS '54.

SPECIALIZATIONS : DATA PROCESSING.

EXPERIENCE : L.D.C., P.I.D., 1957-64; JUNIOR STENO INSDOC, 1964-77; SENIOR PRINTING ASSISTANT, P.I.D. 1977-87; TECHNICAL OFFICER (A), P.I.D. SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : COMPUTER PROCESSING.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TOTAL - 35 YEARS

282

SHRI RATI RAM YADAV; (B. SEPTEMBER 1, 1938),

TECHNICAL OFFICER (A), PUBLICATIONS & INFORMATION DIRECTORATE, NEW DELHI.

QUALIFICATIONS : MATRIC - PUNJAB '57.

EXPERIENCE : J.T.A., S.P.A., TECHNICAL OFFICER (A), INSDOC, NEW DELHI 1980-88; TECHNICAL OFFICER (A), P.I.D. SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : COMPOSING

LANGUAGES : HINDI, ENGLISH.

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New Delhi

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PROF T VISWANATHAN; (B. NOVEMBER 12, 1945),

DIRECTOR, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC (ENGG) ELECTRICAL - B.H.U. '67; M.TECH. ELECTRONICS & COM - I.I.T., KANPUR '69; PH.D. COMPUTER SCIENCE - UNIVERSITY OF MANCHESTER '76

SPECIALIZATIONS : TELECOMMUNICATION ENGINEERING; COMPUTER SCIENCE; INFORMATION SCIENCE; ELECTRICAL ENGINEERING.

EXPERIENCE : DESIGN ENGINEER, VIKRAM SARABHAI SPACE CENTRE, TRIVANDRUM, 1969-76; MANAGER, COMPUTER FACILITY SHAR CENTRE, ISRO, SRIHARIKOTA, 1976-83; SCIENTIST SF, VISITING SCIENTIST AND PROFESSOR, I.I.SC., BANGALORE, 1983-89 DIRECTOR, INSDOC SINCE MAY, 1989.

PRESENT ACTIVITIES : DATA BASE DESIGN, INFORMATION & PRODUCTS, NETWORKING, R & D

LANGUAGES : TAMIL, ENGLISH, HINDI, SANSKRIT.

VISITED : U.K., W. GERMANY, FRANCE, USA, LESOTHO, AUSTRALIA, NEPAL, VIETNAM, THAILAND, JAPAN

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 5, SCIENTIFIC BOOKS - 1, ARTICLES - 15.

AWARDS & DISTINCTIONS : FELLOW, I.E.T.E.; FELLOW, S.I.S.; GRANTHALAYA RATNA, STATE YOUTH LIBRARY ASSOCIATION (R), 1994.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 25, DESIGN - 10, TECHNICAL DEV. - 15, CONSULTANCY - 8, R & D MANAGEMENT - 6, TEACHING - 12, DOCUMENTATION - 4, COMPUTER PROCESSING - 15, ADMN. - 15.

284

SHRI A D KULKARNI; (B. MAR 3, 1948),

SCIENTIST F, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.TECH. ELECTRONICS & TELECOMMN - I.I.T., MADRAS '69; B.A.R.C. TRAINEESHIP - BOMBAY '70.

SPECIALIZATIONS : ELECTRONICS & TELECOMMUNICATION; INFORMATION TECHNOLOGY; SPACE TECHNOLOGY.

EXPERIENCE : SCIENTIST/ENGINEER, V.S.S.C., TRIVENDRUM, 1970-91; SCIENTIST F, INSDOC SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : MANAGEMENT.

LANGUAGES : KANNADA, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 3, TECHNICAL DEV. - 20, TECH. TRANSFER - 5, ADMINISTRATION - 2, R & D MANAGEMENT - 10.

285

MRS J K AHLUWALIA; (B. OCTOBER 2, 1935),

DOCUMENTATION OFFICER (EII), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.A. - PANJAB '58; M.A. MATHEMATICS - PANJAB '60; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC '65; CERTIFICATE IN GERMAN LANGUAGE - MAX MULLER BHAWAN, NEW DELHI '71; CERTIFICATE IN COMPUTER PROGRAMMING - DELHI '74.

SPECIALIZATIONS : MATHEMATICS; SCIENCE EDITING; DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : S.D.A., SCIENTIST B, DOCUMENTATION OFFICER (C) AND DOCUMENTATION OFFICER (EI), INSDOC, 1961-86; DOCUMENTATION OFFICER (EII), INSDOC SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : EDITING SAARC DOCUMENTATION NATIONAL FOCAL POINT ACTIVITIES AND OTHER DOCUMENTATION WORK.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : SCIENCE EDITING & PUBLICATION - 29, DOCUMENTATION - 29.

286

SHRI S K BHATTACHARYA; (B. JANUARY 11, 1936),

TRANSLATION OFFICER (EII), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : FOUR YEAR DIPLOMA IN RUSSIAN LANGUAGE - INSTITUTE OF LANGUAGES, CALCUTTA '54; B.A. - CALCUTTA '56.

SPECIALIZATIONS : RUSSIAN LANGUAGE; TRANSLATION OF RUSSIAN SCIENTIFIC LITERATURE.

EXPERIENCE : LECTURER IN RUSSIAN, INDO-SOVIET CULTURAL SOCIETY, CALCUTTA, (1956-58), ALIGARH MUSLIM UNIVERSITY, ALIGARH, (1959-60) AND JADAVPUR UNIVERSITY, CALCUTTA, 1961-64; SCIENTIST B, SCIENTIST C AND TRANSLATION OFFICER (EI), INSDOC, 1964-83; TRANSLATION OFFICER (EII), INSDOC SINCE SEPTEMBER, 1983.

PRESENT ACTIVITIES : TRANSLATION OF SCIENTIFIC LITERATURE.

LANGUAGES : BENGALI, ENGLISH, RUSSIAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 8, TRANSLATION - 34.

287

SHRI OM NARAYAN CHADDHA; (B. MARCH 30, 1945),

DOCUMENTATION OFFICER (EII), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - ALLAHABAD '62; M.SC. ZOOLOGY - AGRA '64; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '68.

SPECIALIZATIONS : DOCUMENTATION; SCIENTIFIC INFORMATION.

EXPERIENCE : RESEARCH ASSISTANT AND SCIENTIFIC ASSISTANT, CENTRAL INLAND FISHERIES RESEARCH INSTITUTE, BARRACKPORE, 1964-66; S.D.A., SCIENTIST B AND SCIENTIST C, INSDOC, 1966-78; SCIENTIST EI, NBRI, 1978-80; SCIENTIST C, AND DOCUMENTATION OFFICER (EI), INSDOC,

1978-86; (ON DEPUTATION, SENIOR DOCUMENTATION OFFICER, ENGINEERS INDIA LTD., NEW DELHI, 1981-83); DOCUMENTATION OFFICER (EII), INSDOC SINCE APRIL, 1986.

PRESENT ACTIVITIES : SUPERVISION AND PREPARATION OF INDIAN SCIENCE ABSTRACTS, DOCUMENT PROCUREMENT.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 7, TECH. REPORTS - 5, DIRECTORIES - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 20, DOCUMENTATION - 23, COMPUTER PROCESSING - 5.

288

SHRI DINESH ELHENCE; (B. NOVEMBER 23, 1935),

DOCUMENTATION OFFICER (EII), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - LUCKNOW '54; M.SC. ZOOLOGY - LUCKNOW '56; ASSOCIATESHIP IN DOCUMENTATION - DOCUMENTATION RESEARCH & TRAINING CENTRE, BANGALORE '63.

SPECIALIZATIONS : DOCUMENTATION; SCIENTIFIC INFORMATION.

EXPERIENCE : TECHNICAL ASSISTANT, DIRECTORATE OF PLANT PROTECTION, QUARANTINE AND STORAGE, NEW DELHI, 1960-62; S.D.A., SCIENTIST B, SCIENTIST C AND DOCUMENTATION OFFICER (EI), INSDOC, 1962-87; DOCUMENTATION OFFICER (EII), INSDOC SINCE FEBUARY, 1987.

PRESENT ACTIVITIES : INFORMATION ANALYSIS.

LANGUAGES : HINDI, ENGLISH.

VISITED : FRANCE.

PUBLICATIONS & PATENTS : ARTICLES - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION AND SCIENCE EDITING - 30.

289

SHRI D N GUPTA; (B. AUGUST 25, 1939),

DOCUMENTATION OFFICER (EII), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - GORAKHPUR '59; M.SC. BOTANY - GORAKHPUR '61; A.D.R.T.C. DOCUMENTATION AND REPROGRAPHY - I.S.I., CALCUTTA '63.

SPECIALIZATIONS : PLANT PATHOLOGY; DOCUMENTATION; SCIENTIFIC INFORMATION; COMPUTER AND COMMUNICATION.

EXPERIENCE : J.D.A., S.D.A., SCIENTIST B, DOCUMENTATION OFFICER (C) AND DOCUMENTATION OFFICER (EI), INSDOC, 1962-86; DOCUMENTATION OFFICER (EII), INSDOC SINCE APRIL, 1986.

PRESENT ACTIVITIES : ON LINE INFORMATION RETRIEVAL, COMPUTER NETWORKING, CREATION OF INDIGENOUS DATABASES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER SYSTEM AND ONLINE SERVICES, DOCUMENTATION AND INFORMATION SCIENCE - MANAGEMENT. (TOTAL : 29 YEARS).

290

SHRI S I ISLAM; (B. AUGUST 30, 1935),

DOCUMENTATION OFFICER (EII), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - LUCKNOW '54; M.SC. BOTANY - LUCKNOW '57; DIPLOMA IN LIBRARY SCIENCE - DELHI '59.

SPECIALIZATIONS : ABSTRACTING AND INDEXING; SCIENCE EDITING.

EXPERIENCE : J.D.A., S.D.A., SCIENTIST B, DOCUMENTATION OFFICER (C) AND DOCUMENTATION OFFICER (EI), INSDOC, 1961-86; (ALSO TRAINING IN DEVELOPMENT OF INDUSTRIAL INFORMATION SYSTEMS, CANADA AND U.K., 1975 AND AS UNESCO CONSULTANT TO GOVERNMENT OF SUDAN, 1980 AND 1983); DOCUMENTATION OFFICER (EII), INSDOC SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : DOCUMENTATION, INCHARGE OF INSDOC REGIONAL CENTRE, MADRAS.

LANGUAGES : URDU, HINDI, ENGLISH.

VISITED : CANADA, UK, SUDAN, FRANCE, USA.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 28, EDITING - 18.

291

MRS JAYASRI RAGHAVAN; (B. MAY 19, 1950),

SCIENTIST EII, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.E. ELECTRONICS & COMMUNICATION - MADRAS '71; M.E. COMPUTER SCIENCE - I.I.SC. '86.

SPECIALIZATIONS : COMPUTER ARCHITECHURE DESIGN; COMPUTER NETWORKING; SOFTWARE DEVELOPMENT; ONLINE SERVICES TRAINING COURSES.

EXPERIENCE : ENGINEER SB, ENGINEER SC, ENGINEER SD, ENGINEER SE AND ENGINEER SF, VSSC, TRIVANDRUM, 1972-91; SCIENTIST EII, INSDOC SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : COMPUTER NETWORK BASED INFORMATION SERVICES.

LANGUAGES : TAMIL, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS -10, TECH. REPORTS-10, PROCESSES DEVELOPED - 7, PROCESSES UNDER UTILISATION - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 7, APPLIED RESERCH - 10, DESIGN - 15, TECHNICAL DEV. - 19, R&D MANAGEMENT - 5, TESTING -15, QUALITY CONTROL - 4, TEACHING - 1, PLANNING - 10, SALES MARKETING - 2, ADMINISTRATION - 2, EDITING - 5, DOCUMENTATION -2, COMPUTER PROCESSING -19.

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SHRI M RAMACHANDRAN; (B. MARCH 28, 1938),

DOCUMENTATION OFFICER (EII), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) CHEMISTRY - DELHI '57; DIPLOMA IN LIBRARY SCIENCE - DELHI '58.

SPECIALIZATIONS : DOCUMENTATION; SCIENTIFIC INFORMATION; SPECIAL LIBRARY MANAGEMENT.

EXPERIENCE : JUNIOR LIBRARY ASSISTANT, DELHI UNIVERSITY, 1958-59; ASSISTANT LIBRARIAN, I.C.A.R., NEW DELHI, 1959-62; S.D.A., SCIENTIST B, SCIENTIST C AND DOCUMENTATION OFFICER (EI), INSDOC, 1962-90; DOCUMENTATION OFFICER (EII), INSDOC SINCE JULY, 1990.

PRESENT ACTIVITIES : CREATION OF DATABASES ON CONFERENCE PROCEEDINGS.

LANGUAGES : TAMIL, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : TECH. REPORTS - 2, ARTICLES - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 20, DOCUMENTATION - 25, MANAGEMENT OF LIBRARY - 7.

293

SHRI C M RAMANI; (B. DECEMBER 1, 1943),

TRANSLATION OFFICER (EII), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) CHEMISTRY - DELHI '63; M.SC. CHEMISTRY - DELHI '65; DIPLOMA IN RUSSIAN LANGUAGE - DELHI '69; MITTELSTUFE IN GERMAN LANGUAGE & LITERATURE - MAX MULLER BHAWAN, NEW DELHI '69; ADVANCED DIPLOMA IN JAPANESE - JAPAN INFORMATION CENTRE, NEW DELHI '73.

SPECIALIZATIONS : SCIENTIFIC TRANSLATION.

EXPERIENCE : SCIENTIST B, SENIOR TRANSLATING OFFICER, TRANSLATION OFFICER (C) AND TRANSLATION OFFICER (EI), INSDOC, 1967-86; TRANSLATION OFFICER (EII), INSDOC SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : SUPERVISION AND MANAGEMENT OF NATIONAL SCIENCE LIBRARY ACTIVITIES.

LANGUAGES : HINDI, ENGLISH, RUSSIAN, GERMAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 16, TRANSLATION - 22, LIBRARY MANAGEMENT - 1.

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SHRI P DURGA PRASADA RAO; (B. OCTOBER 23, 1939),

TRANSLATION OFFICER (EII), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - ANDHRA '60; M.SC. MECHANICAL ENGINEERING - PEOPLES FRIENDSHIP UNIVERSITY, USSR '66; DIPLOMA IN RUSSIAN LANGUAGE - PEOPLES FRIENDSHIP UNIVERSITY, USSR '66.

SPECIALIZATIONS : MACHINE TOOL DESIGN; SCIENTIFIC TRANSLATION.

EXPERIENCE : J.S.A., ATOMIC ENERGY ESTABLISHMENT TROMBAY, BOMBAY, 1961-62; ASSISTANT ENGINEER, H.E.C., RANCHI, 1966-68; JUNIOR ENGINEER, H.M.T., BANGALORE, 1968-69; TRANSLATION OFFICER (B), TRANSLATION OFFICER (C) AND TRANSLATION OFFICER (EI), INSDOC, 1969-87; TRANSLATION OFFICER (EII), INSDOC SINCE JUNE, 1987.

PRESENT ACTIVITIES : SCIENTIFIC TRANSLATION; SCIENCE EDITING; ABSTRACTING AND DIGESTING OF SCIENTIFIC DOCUMENTS.

LANGUAGES : TELUGU, SANSKRIT, HINDI, ENGLISH, RUSSIAN, GERMAN.

VISITED : USSR.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 18, DOCUMENTATION - 2, TRANSLATION - 21, FOREIGN LANGUAGE INFORMATION - 21.

295

SHRI B K SEN; (B. APRIL 16, 1941),

SCIENTIST EII, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - CALCUTTA '59; DIPLOMA IN LIBRARIANSHIP - CALCUTTA '62; DIPLOMA IN RUSSIAN LANGUAGE - DELHI '79; MASTER IN LIBRARY AND INFORMATION SCIENCE - DELHI '83.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION SCIENCE; LIBRARY SCIENCE; SCIENCE EDITING; LEXICOGRAPHY; HISTORY OF SCIENCE; SCIENTIFIC TRANSLATION.

EXPERIENCE : LIBRARY ASSISTANT, FINANCE O & M DEPARTMENT, CALCUTTA, 1960-63; J.D.A., S.D.A., SCIENTIST B, DOCUMENTATION OFFICER (C) AND DOCUMENTATION OFFICER (EI), INSDOC, 1963-90; (ALSO TRAINING IN INDUSTRIAL INFORMATION, USSR, 1973); SCIENTIST EII, INSDOC SINCE AUGUST, 1990.

PRESENT ACTIVITIES : TEACHING; SCIENCE EDITING; COMPILATION; CONSULTANCY; BIBLIOMETRIC ANALYSIS.

LANGUAGES : BENGALI, HINDI, ENGLISH, RUSSIAN.

VISITED : USSR, MALAYSIA, NEPAL, BANGLADESH.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, ARTICLES - 50, BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 19, PLANNING - 5, EDITING - 22, DOCUMENTATION - 26.

296

MRS C M ANAND; (B. MARCH 10, 1943),

DOCUMENTATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '63; M.SC. BOTANY - B.I.T.S. '65; CERTIFICATE IN GERMAN LANGUAGE - MAX MULLER BHAWAN.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : S.D.A., JUNIOR DOCUMENTATION OFFICER, DOCUMENTATION OFFICER (B) AND DOCUMENTATION OFFICER (C), INSDOC, 1966-89; DOCUMENTATION OFFICER (EI), INSDOC SINCE SEPTEMBER, 1989.

PRESENT ACTIVITIES : ABSTRACTING, INDEXING AND CLASSIFICATION OF SCIENTIFIC LITERATURE; TEACHING

INFORMATION SCIENCE; PREPARATION OF AUDIO/VISUAL KITS.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

VISITED : PHILIPPINES.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1, ARTICLES - 3, AUDIO-VISUAL KITS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 24, DOCUMENTATION - 24, TEACHING - 4, PRODUCTION OF AUDIO/VISUAL PROGRAMMES - 4, EXHIBITIONS ORGANISED - 3.

297

SHRI A M ANSARI; (B. FEBRUARY 14, 1942),

TRANSLATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '62; ADVANCED DIPLOMA IN RUSSIAN LANGUAGE - DELHI '69.

SPECIALIZATIONS : SCIENTIFIC TRANSLATION; SCIENCE EDITING.

EXPERIENCE : SCIENCE TEACHER, S.M. HIGHER SECONDARY SCHOOL, DELHI, 1962-63; LABORATORY ASSISTANT, NCERT, NEW DELHI, 1964; SCIENTIFIC ASSISTANT, DCM, DELHI, 1965; SENIOR COMPUTOR, IARS, NEW DELHI, 1966-69; S.T.A., SCIENTIST B B AND TRANSLATION OFFICER (C), INSDOC, 1969-89; TRANSLATION OFFICER (EI), INSDOC SINCE SEPTEMBER, 1989.

PRESENT ACTIVITIES : SCIENTIFIC TRANSLATION; SCIENCE EDITING.

LANGUAGES : URDU, HINDI, ENGLISH, RUSSIAN, PERSIAN, ARABIC.

VISITED : POLAND.

PROFESSIONAL EXPERIENCE(IN YEARS) : SCIENCE EDITING - 18, SCIENTIFIC TRANSLATION - 18.

298

SHRI A M ARORA; (B. SEPTEMBER 9, 1939),

DOCUMENTATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.A. MATHEMATICS - DELHI '64; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '68.

SPECIALIZATIONS : DOCUMENTATION AND REPROGRAPHY; COMPUTER SCIENCE.

EXPERIENCE : J.L.A. AND COMPUTOR, N.P.L., NEW DELHI, 1959-66; J.D.A., S.D.A., SCIENTIST B AND DOCUMENTATION OFFICER (C), INSDOC, 1966-85; DOCUMENTATION OFFICER (EI), INSDOC SINCE APRIL, 1985.

PRESENT ACTIVITIES : SCIENTIFIC DOCUMENTATION.

LANGUAGES : PUNJABI, ENGLISH.

VISITED : PHILIPPINES.

PUBLICATIONS & PATENTS : RES. PAPERS - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROCESSING IN DOCUMENTATION - 18, DOCUMENTATION - 1.

299

SHRI C R BALASUBRAHMANIAM; (B. MAY 19, 1937),

TRANSLATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - TREVANCONE '56; DIP. IN RUSSIAN '65; TEACHER'S CERTIFICATE IN RUSSIAN - MOSCOW '67; INTENSIVE CERTIFICATE I (CHINESE) - DELHI '74; ADV. DIP. IN CHINESE - NEW DELHI '82.

SPECIALIZATIONS : TRANSLATION INTO ENGLISH FROM FOREIGN LANGUAGES; TECHNICAL EDITING; EDITING TRANSLATION OF S&T MATERIALS.

EXPERIENCE : ASSISTANT, NEW INDIA ASSURANCE COM., BOMBAY, 1957-65; SUB EDITOR, INDIAN NATIONAL SCIENCE ACADEMY, NEW DELHI, 1965-69; SCIENTIST B, TECHNICAL OFFICER (B) AND TECHNICAL OFFICER (C), INSDOC, 1969-86; TRANSLATION OFFICER (EII), INSDOC SINCE JULY, 1986.

PRESENT ACTIVITIES : TRANSLATION FROM TWELVE FOREIGN LANGUGES.

LANGUAGES : TAMIL, ENGLISH, HINDI, SANSKRIT, MALAYALAM, RUSSIAN, BYELORUSSIAN, UKRANION, POLISH, CZECH, SLOVAK, BULGARIAN, SERBOCROATIAN, SLOVENION, GERMAN, FRENCH, CHINESE, JAPANESE.

VISITED : USSR.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 1, BOOK REVIEW - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 5, EDINTING - 22, OTHERS - 22.

300

MRS DEEPA BHARDWAJ; (B. JANUARY 8, 1947),

TRANSLATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) CHEMISTRY - CALCUTTA '65; M.SC. CHEMISTRY - CALCUTTA '67; DIPLOMA IN FRENCH LANGUAGE - ALLIANCE FRANCAISE, CALCUTTA '70; CERTIFICATE IN GERMAN LANGUAGE - MAX MULLER BHAWAN, NEW DELHI '72.

SPECIALIZATIONS : SCIENTIFIC TRANSLATION.

EXPERIENCE : LECTURER, BEHALA COLLEGE, CALCUTTA, 1968; J.R.F., INDIAN ASSOCIATION FOR CULTIVATION OF SCIENCE, CALCUTTA, 1968-71; TRANSLATION OFFICER (B) AND TRANSLATION OFFICER (C), INSDOC, 1971-86; TRANSLATION OFFICER (EI), INSDOC SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : SCIENTIFIC TRANSLATION.

LANGUAGES : BENGALI, ENGLISH, FRENCH. PUBLICATIONS & PATENTS: RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : SCIENTIFIC TRANSLATION - 18, BASIC RES. - 3, TEACHING - 1.

301

SHRI JAGMOHAN BHARDWAJ; (B. JUNE 5, 1943),

TRANSLATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC.- PANJAB '64; M.SC. PETROLEUM ENGG. - PEOPLES' FRIENDSHIP UNIVERSITY, USSR '69; DIPLOMA IN RUSSIAN LANGUAGE; ADVANCED DIPLOMA IN JAPANESE LANGUAGE.

SPECIALIZATIONS : PETROLEUM ENGINEERING; SCIENTIFIC TRANSLATION.

EXPERIENCE : POOL OFFICER (CSIR), ONGC, DEHRADUN, 1970-71; TRANSLATION OFFICER (B), TRANSLATION OFFICER (C), INSDOC, 1971-85; TRANSLATION OFFICER (EI), INSDOC SINCE SEPTEMBER, 1985.

PRESENT ACTIVITIES : HANDLING OF DATABASE MANAGEMENT SYSTEMS AND OTHER RELATED ACTIVITIES.

LANGUAGES : PUNJABI, HINDI, ENGLISH, RUSSIAN, JAPANESE.

VISITED : U.S.S.R.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 16, TRANSLATION - 16.

302

SHRI PRAKASH CHAND; (B. JUNE 3, 1949),

DOCUMENTATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '72; B.LIB. SC. - DELHI '73; M.A. HISTORY - MEERUT '76; M.SC. CHEMISTRY - MEERUT '85; TRAINING COURSE IN FORTRAN IV - INSDOC '85.

SPECIALIZATIONS : LIBRARY SCIENCE; DOCUMENTATION.

EXPERIENCE : LIBRARIAN, A.I.R., NEW DELHI, 1973-74; ASSISTANT LIBRARIAN, I.A.R.I., NEW DELHI, 1974-77; S.D.A., DOCUMENTATION OFFICER (B) AND DOCUMENTATION OFFICER (C), INSDOC, 1977-88; DOCUMENTATION OFFICER (EI), INSDOC SINCE APRIL, 1988.

PRESENT ACTIVITIES : NETWORKING, DOCUMENTATION.

LANGUAGES : HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : INDEXES PREPARED-2, ARTICLES - 2, BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 13.

303

SHRI J C CHOUDHURY; (B. JUNE 29, 1937)),

DOCUMENTATION OFFICER (EI), INSDOC REGIONAL CENTRE, CALCUTTA (INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI)

QUALIFICATIONS : B.SC. - CALCUTTA '57; P.G. DIP. LIB. SC. - CALCUTTA '63.

SPECIALIZATIONS : INFORMATION RETRIEVAL; DOCUMENTATION; LIBRARY MANAGEMENT; LIAISON; PUBLICITY AND PUBLIC RELATIONS; PUBLICATION.

EXPERIENCE : SENIOR LIBRARIAN, S.S.A. AND SCIENTIST B, R.R.L., BHUVENESWAR, 1965-83; DOCUMENTATION OFFICER (B) AND DOCUMENTATION OFFICER (C), INSDOC, 1983-89; DOCUMENTATION OFFICER (EI), INSDOC SINCE AUGUST, 1989.

PRESENT ACTIVITIES : DOCUMENTATION.

LANGUAGES : BENGALI, HINDI, ORIYA, ENGLISH, GERMAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 14, TECHNOLOGY TRANSFER - 14, EDITING - 14, DOCUMENTATION - 17, PUBLICITY & PUBLIC RELATIONS - 14.

304

SHRI M K DASGUPTA; (B. JANUARY 1, 1935),

ART OFFICER (EI), INSDOC REGIONAL CENTRE, BANGALORE (INSDOC, NEW DELHI).

QUALIFICATIONS : FIVE YEAR DIPLOMA IN FINE ARTS - CALCUTTA '54; TEACHER TRAINING CERTIFICATE - CALCUTTA '54.

SPECIALIZATIONS : COLOUR REPRODUCTION; OFFSET LITHOGRAPHY.

EXPERIENCE : ARTIST, CALCUTTA CHROMOTYPE LTD., CALCUTTA, 1954-55; OFFSET NEGATIVE RETOUCHER, NATIONAL LITHOGRAPHIC AND PRINTING PRESS, CALCUTTA, 1955-56; OFFSET RETOUCHER, GANGES PRINTING COMPANY LTD., CALCUTTA, 1956-59; LECTURER, SCHOOL OF PRINTING TECHNOLOGY, CALCUTTA, 1959-66; LAYOUT ARTIST, SENIOR ARTIST AND ART OFFICER (B), INSDOC, 1966-89; ART OFFICER (EI), INSDOC SINCE JANUARY, 1989.

PRESENT ACTIVITIES : DESIGN AND LAYOUT FOR PRINTING.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 7, PRINTING - 26.

305

DR R P S DHAKA; (B. NOVEMBER 12, 1939),

TRANSLATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '60; M.A. ENGLISH - MEERUT '71; PH.D. IN RUSSIAN LANGUAGE - J.N.U. '81.

SPECIALIZATIONS : SCIENTIFIC TERMINOLOGIES AND LEXICOGRAPHY.

EXPERIENCE : S.T.A., JUNIOR TRANSLATION OFFICER, TRANSLATION OFFICER (B) AND TRANSLATION OFFICER (C), INSDOC, 1969-85; TRANSLATION OFFICER (EI), INSDOC SINCE FEBRUARY, 1985.

PRESENT ACTIVITIES : PROGRAMME MANAGEMENT.

LANGUAGES : HINDI, ENGLISH, RUSSIAN.

VISITED : USSR.

PUBLICATIONS & PATENTS : ARTICLES - 15.

AWARDS & DISTINCTIONS : SECRETARY, INTERNATIONAL COMMITTEE ON TERMINOLOGY UNIFICATION.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 21, TRANSLATION - 21.

306

SHRI S N DUTTA; (B. JANUARY 7, 1940),

TRANSLATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - RAJASTHAN, '58; M.SC. (PET. ENGG.) - PEOPLE FRIENDSHIP UNIV. USSR, '69; DIPLOMA IN SPANISH LANGUAGE - J.N.U., NEW DELHI '78.

SPECIALIZATIONS : SCIENTIFIC TRANSLATION; EDITING.

EXPERIENCE : TRANSLATION OFFICER (B) AND TRANSLATION OFFICER (C), INSDOC, 1971-85; TRANSLATION OFFICER (EI), INSDOC SINCE FEBRUARY, 1985.

PRESENT ACTIVITIES : SCIENTIFIC TRANSLATION.

LANGUAGES : BENGALI, HINDI, ENGLISH, RUSSIAN, SPANISH.

VISITED : USSR.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING: 10, TRANSLATION - 20.

307

SHRI V K GUPTA; (B. JUNE 26, 1944),

SCIENTIST EI, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY - SAGAR '68; P.G. DIPLOMA - HIGH POLYMERS AND RUBBER TECHNOLOGY - IIT, KHARAGPUR '69.

SPECIALIZATIONS : POLYMER CHEMISTRY & RUBBER TECHNOLOGY; PHYSICAL CHEMISTRY; INFORMATION SCIENCE.

EXPERIENCE : SSA, PID, NEW DELHI, 1969-71; SSA, SCIENTIST A, SCIENTIST B AND SCIENTIST C, IIP, DEHRADUN, 1971-88; SCIENTIST EI, INSDOC SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : COMPUTER PROCESSING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 5, PROCESSES DEVELOPED - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 17, DOCUMENTATION - 1, COMPUTER PROCESSING - 1, OTHERS - 2.

308

SHRI K KANNAN; (B. SEPTEMBER 11, 1943),

PRINTING OFFICER (EI), INSDOC REGIONAL CENTRE, BANGALORE, (INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI).

QUALIFICATIONS : DIPLOMA IN PRINTING TECHNOLOGY - MADRAS '63; CERTIFICATE IN INDUSTRIAL AND PRODUCTION ENGINEERING - KARNATAKA STATE '70; B.A. - KARNATAK '75; DIPLOMA IN LABOUR LAW - ANNAMALAI '80.

SPECIALIZATIONS : PHOTO OFFSET PRINTING; PRINTING PLANT MANAGEMENT.

EXPERIENCE : ASSISTANT LITHOGRAPHER, S.T.A., J.T.O., PRINTING OFFICER (B) AND PRINTING OFFICER (C), INSDOC, 1964-91; PRINTING OFFICER (EI), INSDOC SINCE FEBRUARY, 1991.

PRESENT ACTIVITIES : OPERATION OF PRINTING MACHINES.

LANGUAGES : TAMIL, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PRINTING - 26.

309

SHRI VED BHUSHAN KOCHHAR; (B. DECEMBER 1, 1936),

DOCUMENTATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) CHEMESTRY - DELHI '56; M.SC. ANTHROPOLOGY - DELHI '58; M.LIB. SCIENCE - DELHI '71; DIPLOMA IN GERMAN LANGUAGE - DELHI '66.

SPECIALIZATIONS : DOCUMENTATION; LIBRARY SCIENCE.

EXPERIENCE : S.D.A., SCIENTIST B AND DOCUMENTATION OFFICER (C), INSDOC, 1964-87; (ALSO ADVISER IN DOCUMENTATION AND UNESCO EXPERT TO SWITZERLAND, 1974-79 AND SERVED AS HEAD, NATIONAL DOCUMENTATION CENTRE, N.I.H.F.W., NEW DELHI, 1982-84); DOCUMENTATION OFFICER (EI), INSDOC SINCE OCTOBER, 1987.

PRESENT ACTIVITIES : INFORMATION ANALYSIS.

LANGUAGES : HINDI, ENGLISH.

VISITED : SWAZILAND, FRANCE, UK.

PUBLICATIONS & PATENTS : ARTICLES - 15

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 26.

310

MRS T A PANDALAI; (B. SEPTEMBER 28, 1942),

DOCUMENTATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - KERALA '62; DIPLOMA IN LIBRARY SCIENCE - DELHI '65; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC, NEW DELHI '83.

SPECIALIZATIONS : SCIENTIFIC DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : J.D.A., S.D.A., JUNIOR DOCUMENTATION OFFICER (A), DOCUMENTATION OFFICER (B) AND DOCUMENTATION OFFICER (C), INSDOC, 1966-90; DOCUMENTATION OFFICER (EI), INSDOC SINCE JUNE, 1990.

PRESENT ACTIVITIES : DOCUMENTATION; INFORMATION SERVICE; SERIALS MANAGEMENT.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, RUSSIAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 25.

311

MRS SUSY PETER; (B. MAY 9, 1938),

DOCUMENTATION OFFICER (EI), INSDOC REGIONAL CENTRE, BANGALORE, (INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI).

QUALIFICATIONS : B.A. (HONS.) ENGLISH - KERALA '60; M.A. ENGLISH - KERALA '61; B.LIB. SC. - KERALA '62.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : LIBRARIAN, HINDUSTAN PHOTO FILMS, OOTY, 1963-65; ASSISTANT LIBRARIAN, KERALA UNIVERSITY, 1965; J.D.A., S.D.A., JUNIOR DOCUMENTATION OFFICER (A), DOCUMENTATION OFFICER (B), DOCUMENTATION OFFICER (C), INSDOC, 1966-90; DOCUMENTATION OFFICER (EI), INSDOC SINCE JUNE, 1990.

PRESENT ACTIVITIES : DOCUMENTATION AND INFORMATION SERVICES.

LANGUAGES : MALAYALAM, TAMIL, KANNADA, ENGLISH, FRENCH, GERMAN.

PUBLICATIONS & PATENTS : ARTICLES - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 27, TEACHING - 1.

312

SHRI R S SAXENA; (B. FEBRUARY 8, 1941),

TRANSLATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '62; M.SC. CHEMISTRY - AGRA '64; ADVANCED DIPLOMA IN RUSSIAN LANGUAGE - DELHI '68; DIPLOMA IN JAPANESE LANGUAGE - DELHI '72.

SPECIALIZATIONS : SCIENTIFIC TRANSLATION.

EXPERIENCE : J.S.A., DEFENCE SCIENCE LABORATORY, DELHI, 1965-69; S.S.A., DESIDOC, DELHI, 1969-72; TRANSLATION OFFICER, S.S.A., J.S.O., SCIENTIST B AND SCIENTIST C, INSDOC, 1972-87; (ALSO ADVANCED STUDIES IN JAPANESE LANGUAGE, OSAKA UNIVERSITY OF FOREIGN STUDIES JAPAN, 1973-75 AND PART-TIME LECTURER IN JAPANESE, DELHI UNIVERSITY 1977-78); TRANSLATION OFFICER (EI), INSDOC SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : WORKING IN INSDOC RUSSIAN SCIENCE INFORMATION CENTRE; DOCUMENTATION.

LANGUAGES : HINDI, ENGLISH, RUSSIAN, JAPANESE.

VISITED : JAPAN.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1, ARTICLES - 9.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 3, DOCUMENTATION - 7, TRANSLATION - 18.

313

SHRI SUBE SINGH; (B. NOV 15, 1938),

DOCUMENTATION OFFICER (EI), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.A. - DELHI '58; DIPLOMA IN LIBRARY SCIENCE - DELHI '60; M.A. ECONOMICS - MEERUT '68.

SPECIALIZATIONS : LIBRARY SCIENCE; DOCUMENTATION.

EXPERIENCE : ASSISTANT LIBRARIAN AND LIBRARIAN, C.S.O., NEW DELHI, 1961-74; CHIEF LIBRARIAN, C.W.C., NEW DELHI, 1974-80; DOCUMENTATION OFFICER (B) AND DOCUMENTATION OFFICER (C), INSDOC, 1980-90; DOCUMENTATION OFFICER (EI), INSDOC SINCE OCTOBER, 1990.

PRESENT ACTIVITIES : DOCUMENTATION; WORKING FOR INTERNATIONAL SERIALS DATA SYSTEM.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 16, LIBRARIANSHIP - 13.

314

SHRI R L ANAND; (B. FEBRUARY 2, 1935),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : CERTIFICATE IN LIBRARY SCIENCE - I.D.L.A. '65; B.A. - DELHI '68; M.A. HISTORY - MEERUT '71; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '74.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : LABORATORY OPERATOR, NPL, NEW DELHI, 1953-55; L.D.C., U.D.C., J.D.A., S.D.A., JUNIOR DOCUMENTATION OFFICER AND DOCUMENTATION OFFICER (B), INSDOC, 1955-86; DOCUMENTATION OFFICER (C), INSDOC SINCE MAY, 1986.

PRESENT ACTIVITIES : DOCUMENTATION; COMPILATION OF DIRECTORY OF SCIENTIFIC RESEARCH INSTITUTIONS IN INDIA.

LANGUAGES : HINDI, SANSKRIT, URDU, ENGLISH.

PUBLICATIONS & PATENTS : TECH. REPORTS - 1, SCIENCE INFORMATION SERVICES IN INDIA - A REFERRAL DIRECTORY - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPILATION - 13, DOCUMENTATION - 23.

315

MRS KAMLESH ARORA; (B. MAY 31, 1956),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '75; M.SC. PHYSICS - DELHI '77; B.LIB.SC. - DELHI '78; SHORT-TERM COURSE IN DATA PROCESSING & COBOL PROGRAMMING - I.I.T., DELHI '80.

SPECIALIZATIONS : SCIENTIFIC DOCUMENTATION.

EXPERIENCE : ASSISTANT LIBRARIAN, I.S.I., NEW DELHI, 1979; J.D.A., S.D.A., DOCUMENTAION CENTRE (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1979-88; DOCUMENTATION OFFICER (C), INSDOC SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : DOCUMENTATION; TEACHING; BIBLIOMETRIC ANALYSIS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 11.

316

MRS RENU ARORA; (B. NOVEMBER 5, 1951),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - MADRAS '71; B.LIB.SC. - MADRAS '73; MASTER IN LIBRARY & INFORMATION SCIENCE - DELHI '77; M.PHIL. LIBRARY & INFORMATION SCIENCE - DELHI '80.

SPECIALIZATIONS : SCIENTIFIC DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : ASSISTANT LIBRARIAN, CENTRAL INSTITUTE OF EDUCATION, UNIVERSITY OF DELHI, 1975-76; J.D.A., S.D.A., DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1979-88; DOCUMENTATION OFFICER (C), INSDOC SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : TEACHING, DOCUMENTATION AND EDITING.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 8, EDITING - 5, DOCUMENTATION - 11.

317

SHRI SUDHIR KUMAR ARORA; (B. DECEMBER 5, 1951),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI

QUALIFICATIONS : B.SC.(HONS) PHYSICS - KURUKSHETRA '71; M.SC. PHYSICS - KURUKSHETRA '73; B.LIB.SC. - KURUKSHETRA '74; CERTIFICATE IN FRENCH - KURUKSHETRA '73; COURSES IN FORTRON, COBOL & BASIC PROGRAMMING - I.I.T. '82; UNIDO CERTIFICATE IN INDUSTRIAL INFORMATION; CERTIFICATE UNIX/C AND CERTIFICATE ONUNE INFORMATION RETRIEVAL.

SPECIALIZATIONS : NUCLEAR PHYSICS; DOCUMENTATION; COMPUTER AND COMMUNICATION.

EXPERIENCE : LIBRARIAN, S.J.K. DEGREE COLLEGE, KALANAUR, ROHTAK, 1974-77; S.D.A. AND DOCUMENTATION OFFICER (B), INSDOC, 1977-86; DOCUMENTATION OFFICER (C), INSDOC SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : ON LINE INFORMATION RETRIEVAL AND COMPUTER NETWORKING.

LANGUAGES : HINDI, PUNJABI, ENGLISH, FRENCH.

VISITED : U.S.S.R.

PUBLICATIONS & PATENTS : ARTICLES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 16.

318

SHRI SURENDRA KUMAR CHADHA; (B. JANUARY 1, 1938),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.A. - DELHI '60; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '74.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION DISSEMINATION.

EXPERIENCE : CARETAKER AND J.T.A., N.M.L., 1960-62; J.T.A., P.I.D., 1962-64; S.D.A., JUNIOR DOCUMENTATION OFFICER AND DOCUMENTATION OFFICER (B), INSDOC, 1964-85; DOCUMENTATION OFFICER (C), INSDOC SINCE JUNE, 1985.

PRESENT ACTIVITIES : DOCUMENTATION AND INFORMATION DISSEMINATION.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 2, DOCUMENTATION - 28, INFORMATION DISSEMINATION - 28

319

SHRI ASHOK KUMAR CHAWLA; (B. MARCH 11, 1958),

TRANSLATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) BOTANY - DELHI '77; INTENSIVE COURSE IN JAPANESE LANGUAGE - DELHI '78; M.A. JAPANESE LANGUAGE - J.N.U. '82.

SPECIALIZATIONS : SCIENTIFIC TRANSLATION.

EXPERIENCE : CASUAL INTERPRETER IN JAPANESE, MODI STEELS, 1978-82; LECTURER, DEPARTMENT OF CHINESE & JAPANESE STUDIES, DELHI UNIVERSITY, DELHI, 1982-83; TRANSLATION OFFICER (B), INSDOC, 1983-88; TRANSLATION OFFICER (C), INSDOC SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SCIENTIFIC TRANSLATION; TERMINOLOGICAL RESEARCH; OFFICE AUTOMATION.

LANGUAGES : HINDI, PUNJABI, ENGLISH, JAPANESE.

VISITED : JAPAN, SINGAPORE, SRI LANKA, NEPAL.

PUBLICATIONS & PATENTS : ARTICLES - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, TRANSLATION - 12.

320

SHRI K MOHAN DAS; (B. APRIL 6, 1948),

TRANSLATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - KERALA '69; ADVANCED DIPLOMA IN RUSSIAN LANGUAGE - SCHOOL OF FOREIGN LANGUAGES, NEW DELHI '72; DIPLOMA OF PROFICIENCY IN SPANISH LANGUAGE - J.N.U. '76.

SPECIALIZATIONS : SCIENTIFIC TRANSLATION.

EXPERIENCE : RUSSIAN LANGUAGE TRANSLATOR TRAINEE AND RUSSIAN LANGUAGE TRANSLATOR, HINDUSTAN AERONAUTICS LTD., NASIK, 1970-73; TRANSLATOR (RUSSIAN), TRANSLATION OFFICER (A) AND TRANSLATION OFFICER (B), INSDOC, 1973-87; TRANSLATION OFFICER (C), INSDOC SINCE JANUARY, 1987.

PRESENT ACTIVITIES : TRANSLATION OF SCIENTIFIC AND TECHNICAL PAPERS.

LANGUAGES : MALAYALAM, HINDI, ENGLISH, RUSSIAN, SPANISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TRANSLATION - 17.

321

SHRI SUBRATA DATTA; (B. SEPTEMBER 2, 1940),

TRANSLATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI. (POSTED AT CALCUTTA CENTRE).

QUALIFICATIONS : CERTIFICATE IN GERMAN LANGUAGE - BERLITZ SCHOOL OF LANGUAGE, KIEL, W. GERMANY '62; GRADUATION IN GERMAN LANGUAGE - UNIVERSITY OF SAAR, SAARBRUECKEN, W. GERMANY '66; M.SC. GEOLOGY - MUNICH UNIVERSITY, MUNICH, W.GERMANY '73.

SPECIALIZATIONS : MICROPALEONTOLOGY; SCIENTIFIC TRANSLATION AND INTERPRETATION; COMPUTER SCIENCE; PHOTOGEOLOGY.

EXPERIENCE : SENIOR ASSISTANT TO CHIEF GEOLOGIST, BIVA'S PVT. LTD., CALCUTTA, 1975-78; LECTURER/TRANSLATOR IN GERMAN, B.H.E.L., HARDWAR, 1978-82; TRANSLATION OFFICER (B), INSDOC, 1982-87; TRANSLATION OFFICER (C), INSDOC SINCE MARCH, 1987.

PRESENT ACTIVITIES : DATABASE CREATION, PILOT PROJECTS & REPORT GENERATION.

LANGUAGES : BENGALI, HINDI, ENGLISH, GERMAN.

VISITED : W. GERMANY, AUSTRIA.

PUBLICATIONS & PATENTS : RES. PAPERS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 2, APP. RES. - 2, CONSULTANCY - 3, TEACHING - 4, SURVEY OF NATURAL RESOURCES - 5, TECHNOLOGY TRANSFER - 5, EDITING - 4, DOCUMENTATION - 2, COMPUTER PROCESSING - 3, DATABASE CREATION - 2.

322

MRS MANJU DHAR; (B. MARCH 25, 1956),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.A. MATHEMATICS - DELHI '77; MASTER IN LIBRARY & INFORMATION SCIENCE - DELHI '76.

SPECIALIZATIONS : MATHEMATICS; DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : J.D.A., S.D.A, DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1979-88; DOCUMENTATION OFFICER (C), INSDOC SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : DOCUMENTATION, CREATION OF INDEGENOUS DATABASES.

LANGUAGES : KASHMIRI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 11.

323

SHRI S B GHOSH; (B. JUNE 1, 1942),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - CALCUTTA '61; B.A. - CALCUTTA '70; DIPLOMA IN LIBRARY SCIENCE - CALCUTTA '63; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC, NEW DELHI '71.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : SENIOR OBSERVER (LIBRARY), INDIA METEOROLOGICAL DEPARTMENT, CALCUTTA, 1962-63; LIBRARY ASSISTANT, ASSISTANT LIBRARIAN AND LIBRARIAN, GEOLOGICAL SURVEY OF INDIA, CALCUTTA AND LUCKNOW, 1963-81; DOCUMENTATION OFFICER (B), INSDOC, 1981-86; DOCUMENTATION OFFICER (C), INSDOC SINCE JULY, 1986.

PRESENT ACTIVITIES : TEACHING INFORMATION SCIENCE; SCIENCE DOCUMENTATION; CONSULTANCY IN PLANNING AND DESIGN OF INFORMATION SYSTEMS.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : U.K., U.S.A.

PUBLICATIONS & PATENTS : ARTICLES - 20, BOOKS EDITED - 2, BIBLIOGRAPHIES - 15, CATALOGUES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 27, EDITING - 23, TEACHING - 9, MANAGEMENT OF INFORMATION SYSTEMS/CENTRES - 21.

324

MISS URMILA GOEL; (B. FEBRUARY 1, 1938),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.A. - AGRA '59; B.LIB.SC. - VIKRAM '63; M.A. POLITICAL SCIENCE - MEERUT '69.

SPECIALIZATIONS : DOCUMENTATION.

EXPERIENCE : J.D.A., S.D.A. AND JUNIOR DOCUMENTATION OFFICER AND DOCUMENTATION OFFICER (B), INSDOC, 1964-85; DOCUMENTATION OFFICER (C), INSDOC SINCE JUNE, 1985.

PRESENT ACTIVITIES : DOCUMENTATION; COMPUTER APPLICATION & INFORMATION TECHNOLOGY.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 26.

325

MRS ARUNA KARANJAI; (B. OCTOBER 5, 1946),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) CHEMISTRY - CALCUTTA '64; DIPLOMA IN LIBRARY SCIENCE - WOMEN'S POLYTECHNIC, DELHI STATE '69; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC, NEW DELHI '83.

SPECIALIZATIONS : DOCUMENTATION.

EXPERIENCE : J.D.A., S.D.A., DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1970-88; DOCUMENTATION OFFICER (C), INSDOC SINCE JUNE, 1988.

PRESENT ACTIVITIES : DOCUMENTATION; MARKETING OF INFORMATION PRODUCTS.

LANGUAGES : BENGALI, HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 20.

326

SHRI H S D KHATRI; (B. DECEMBER 15, 1943),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - AGRA '66; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '74.

SPECIALIZATIONS : DOCUMENTATION.

EXPERIENCE : J.D.A., J.D.O. AND DOCUMENTATION OFFICER (B), INSDOC, 1967-85; DOCUMENTATION OFFICER (C), INSDOC SINCE JUNE, 1985.

PRESENT ACTIVITIES : PREPARATION AND SUPERVISION OF INDIAN SCIENCE ABSTRACTS.

LANGUAGES : HINDI, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 23, DOCUMENTATION - 23, ABSTRACTING & INDEXING - 23.

327

SHRI NARENDRA KUMAR; (B. JANUARY 5, 1956),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - MEERUT '75; M.SC. ZOOLOGY - MEERUT '77; B.LIB. SCI. - DELHI '79; M.LIB. SCI. - DELHI '80; M.PHIL. - DELHI '85.

SPECIALIZATIONS : ENTOMOLOGY; LIBRARY EDUCATION; INFORMATION STORAGE AND RETRIEVAL SYSTEMS; DATA BASE CREATION.

EXPERIENCE : S.D.A., DOCUMENTATION OFFICER (A) AND DOCUMENTAT OFFICER (B), INSDOC, 1976-90; DOCUMENTATION OFFICER (C), INSDOC SINCE JANUARY, 1990.

PRESENT ACTIVITIES : BIBLIOMETRICS & TEACHING.

LANGUAGES : ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, SCIENTIFIC BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, EDITING - 2, DOCUMENTATION - 8, COMPUTER PROCESSING - 1.

328

SHRI SHARBANI RANJAN KUNDU; (B. SEPTEMBER 13, 1952),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.A. (HONS) MATHEMATICS - DELHI '72; M.A. MATHEMATICS - DELHI '74.

SPECIALIZATIONS : COMPUTER PROGRAMMING.

EXPERIENCE : PROGRAMMER, B.I.T.S., PILANI, 1974-77; INVESTIGATOR, DEPARTMENT OF STATISTICS, NATIONAL SAMPLE SURVEY, 1977; S.D.A.(PROGRAMMING) AND DOCUMENTATION OFFICER (B), INSDOC, 1977-85; DOCUMENTATION OFFICER (C), INSDOC SINCE JANUARY, 1985.

PRESENT ACTIVITIES : COMPUTER APPLICATIONS; PREPARATION OF INDIAN SCIENCE ABSTRACTS.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : SYSTEMS DESIGN - 7, TEACHING - 2, DOCUMENTATION - 1, COMPUTER PROCESSING - 12, PREPARATION OF ISA - 1.

329

MISS V V LAKSHMI; (B. JUNE 27, 1954),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.SC. BOTANY - DELHI '76; MASTER IN LIBRARY & INFORMATION SCIENCE - DELHI '79.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : J.D.A., S.D.A., AND DOCIMENTATION OFFICER (B), INSDOC, 1979-88; DOCUMENTATION OFFICER (C), INSDOC SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : DOCUMENTATION; PROGRAMME MANAGEMENT; COMPUTER APPLICATIONS; DATABASE CREATION.

LANGUAGES : TELUGU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 11.

330

SHRI BANWARI LAL; (B. JUNE 25, 1956),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC - DELHI '78; B.LIB SC - DELHI '80; M.LIB.SC. - DELHI '81; M.A ECONOMICS - MEERUT '83; PH.D. LIBRARY SCIENCE - JIWAJI '92.

SPECIALIZATIONS : BIOLOGICAL SCIENCES; LIBRARY SCIENCE; DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : LIB. ASSTT., RESEARCH ASSTT., NEW DELHI, 1981-82; DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1982-86; LIBRARIAN, IASRI LIBRARY, NEW DELHI, 1986; DEPUTY LIBRARIAN, IIT LIBRARY, KHARAGPUR, 1991-92; DOCUMENTATION OFFICER (C), INSDOC SINCE FEBRUARY, 1992.

PRESENT ACTIVITIES : DATABASE COMPUTER PROGRAMMING.

LANGUAGES : ENGLISH, HINDI, RUSSIAN.

VISITED : USSR, NEPAL.

PUBLICATIONS & PATENTS : RES. PAPERS - 3, TECH. REPORT -1, ARTICLES - 17.

PROFESSIOANL EXPERIENCE(IN YEARS) : DOCUMENTATION -10.

331

SHRI B R NAGAR; (B. APRIL 6, 1950),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.SC. CHEMISTRY - MEERUT '77.

SPECIALIZATIONS : COMPUTER PROGRAMMING.

EXPERIENCE : JDA, SDA, DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1979-85; DOCUMENTATION OFFICER (C), INSDOC SINCE FEBRUARY, 1985.

PRESENT ACTIVITIES : COMPUTER PROGRAMMING.

LANGUAGES : GUJARATI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMPUTER PROCESSING - 11 1/4.

332

SHRI M NATRAJAN; (B. JUNE 15, 1954),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.SC. MATH - MADRAS '77; B.LIB.SCI. - MADRAS '79; A.D.I.SC., D.R.T.C. - BANGALORE '81; CERTIFICATE IN COMPUTER PROGRAMMING, T.C.E. - MADURAI '84.

SPECIALIZATIONS : FLUID MECHANICS; DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : J.D.A., S.D.A., DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), 1981-89; DOCUMENTATION OFFICER (C), INSDOC SINCE NOVEMBER, 1989.

PRESENT ACTIVITIES : COMPUTER NETWORKING AND INFORMATION RETRIEVAL.

LANGUAGES : TAMIL, HINDI, ENGLISH, ITALIAN.

PUBLICATIONS & PATENTS : ARTICLES - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : COMP. PROCESSING, DOCUMENTATION, REPROGRAPHY - 9.

333

SHRI K M PETER; (B. JUNE 20, 1935),

DOCUMENTATION OFFICER (C), INSDOC REGIONAL CENTRE, BANGALORE, (INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI).

QUALIFICATIONS : B.A. ECONOMICS - KERALA '58; M.A. SOCIOLOGY - VIKRAM '60; DIPLOMA IN LIBRARY SCIENCE - VIKRAM '61; ASSOCIATESHIP IN DOCUMENTATION AND INFORMATION SCIENCE - I.S.I., CALCUTTA '74.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION SCIENCE.

EXPERIENCE : LIBRARIAN, GOVERNMENT POST-GRADUATE SCIENCE COLLEGE, BHOPAL, 1961-64; J.D.A., S.D.A., JUNIOR DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1964-85; DOCUMENTATION OFFICER (C), INSDOC SINCE JUNE, 1985.

PRESENT ACTIVITIES : DOCUMENTATION AND INFORMATION SERVICES.

LANGUAGES : MALAYALAM, HINDI, TAMIL, KANNADA, ENGLISH, GERMAN.

PUBLICATIONS & PATENTS : POPULAR SCIENCE ARTICLES - 6, PROFESSIONAL ARTICLES - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 30.

334

SHRI YAMUNA PRASAD; (B. NOVEMBER 10, 1944),

TRANSLATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - MAGADH '64; B.A.(HONS) RUSSIAN LANGUAGE - J.N.U. '70.

SPECIALIZATIONS : RUSSIAN LANGUAGE; SCIENTIFIC TRANSLATION.

EXPERIENCE : TRANSLATOR, TRANSLATION OFFICER (A), TRANSLATION OFFICER (B), INSDOC, 1973-87; TRANSLATION OFFICER (C), INSDOC SINCE FEBRUARY, 1987.

PRESENT ACTIVITIES : TRANSLATION.

LANGUAGES : HINDI, ENGLISH, RUSSIAN, POLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING- 1, TRANSLATION- 18.

335

MRS V RAJALAKSHMI; (B. MAY 5, 1942),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - KERALA '64; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '67.

SPECIALIZATIONS : DOCUMENTATION.

EXPERIENCE : J.D.A., S.D.A. AND DOCUMENTATION OFFICER (A), INSDOC, 1969-86; DOCUMENTATION OFFICER (C), INSDOC SINCE JUNE, 1986.

PRESENT ACTIVITIES : DOCUMENTATION.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 21.

336

SHRI A SUBA RAO; (B. APRIL 15, 1947),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - ANDHRA '67; B.LIB. SC. - NAGPUR '69.

SPECIALIZATIONS : DOCUMENTATION; EDITING; TRANSLATION; LIBRARY AUTOMATION.

EXPERIENCE : J.D.A., S.D.A., DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1972-88; DOCUMENTATION OFFICER (C), INSDOC SINCE JULY, 1988.

PRESENT ACTIVITIES : DOCUMENTATION; COMPUTER APPLICATIONS TO LIBRARY ACTIVITIES.

LANGUAGES : TELUGU, HINDI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 15, DOCUMENTATION - 18, TRANSLATION - 6, LIBRARY AUTOMATION - 5.

337

SHRI B R KESHAVA RAO; (B. APRIL 13, 1939),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI,(POSTED) AT BANGALORE).

QUALIFICATIONS : B.SC. - MYSORE '61; ASSOCIATESHIP IN DOCUMENTATION AND REPROGRAPHY - INSDOC, NEW DELHI '67.

SPECIALIZATIONS : DOCUMENTATION.

EXPERIENCE : J.D.A., S.D.A., JUNIOR DOCUMENTATION OFFICER AND DOCUMENTATION OFFICER (B), INSDOC, 1967-85; DOCUMENTATION OFFICER (C), INSDOC SINCE JUNE, 1985.

PRESENT ACTIVITIES : DOCUMENTATION

LANGUAGES : KANNADA, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 23.

338

SHRI P K ROY; (B. JANUARY 23, 1944),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - BURDWAN '68; B.LIB. SC. - CALCUTTA '76; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC, NEW DELHI '80;CERTIFICATE IN COMPUTER PROGRAMMING.

SPECIALIZATIONS : INFORMATION ANALYSIS; DATA BASE SYSTEM.

EXPERIENCE : CATALOGUER, C.M.E.R.I., DURGAPUR, 1968-74; (ALSO TRAINING IN COMPUTER PROGRAMMING, CMERI, 1973); SENIOR ASSISTANT LIBRARIAN, G.S.I., CALCUTTA, 1974-80 AND TRAINING IN DATA-BASE SYSTEM, R.C.C., CALCUTTA, 1980); DOCUMENTATION OFFICER (B), INSDOC, 1980-85; DOCUMENTATION OFFICER (C), INSDOC SINCE JUNE, 1985.

PRESENT ACTIVITIES : INFORMATION ANALYSIS AND COMPUTER PROGRAMMING.

LANGUAGES : BENGALI, ENGLISH, RUSSIAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 6, COMPUTER PROCESSING - 10.

339

SHRI S K SAXENA; (B. JULY 15, 1937),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.COM. - AGRA '59; M.A. ECONOMICS - AGRA '67; DIPLOMA IN LIBRARY SCIENCE - PANJAB '68.

SPECIALIZATIONS : INFORMATION SCIENCE.

EXPERIENCE : L.D.C., JUNIOR STENOGRAPHER, J.D.A., S.D.A., DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1956-90; DOCUMENTATION OFFICER (C), INSDOC SINCE JUNE, 1990.

PRESENT ACTIVITIES : INFORMATION DISSEMINATION.

LANGUAGES : HINDI, URDU, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 21.

340

SHRI YOGESH KUMAR SHARMA; (B. NOVEMBER 7, 1942),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '62; DIPLOMA IN LIBRARY SCIENCE - PANJAB '65; M.A. SOCIOLOGY - MEERUT '69; M.SC. MATHEMATICS - MEERUT '81; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC, NEW DELHI '83.

SPECIALIZATIONS : DOCUMENTATION.

EXPERIENCE : PLANT OPERATOR, PIGMENTS AND DYESTUFF LTD., BOMBAY, 1963-64; SCIENCE TEACHER, GOVERNMENT GIRLS HIGHER SECONDARY SCHOOL, BHAWANIGARH, 1964; LIBRARIAN, DAYANAND MEDICAL COLLEGE, LUDHIANA, 1965-66; J.D.A., S.D.A., JUNIOR DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1966-85; DOCUMENTATION OFFICER (C), INSDOC SINCE JUNE, 1985.

PRESENT ACTIVITIES : DOCUMENTATION.

LANGUAGES : HINDI, PUNJABI, ENGLISH, GERMAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 24.

341

MRS ALICJA SHRIVASTAVA; (B. NOVEMBER 16, 1939),

TRANSLATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.A. ORIENTAL PHILOLOGY - WARSAW, POLAND '62; M.A. ENGLISH - SAUGAR '67.

SPECIALIZATIONS : SCIENTIFIC TRANSLATION.

EXPERIENCE : LECTURER IN ENGLISH, PUNJABI UNIVERSITY, PATIALA, 1973-82; TRANSLATION OFFICER (B), INSDOC, 1982-87; TRANSLATION OFFICER (C), INSDOC SINCE MAY, 1987.

PRESENT ACTIVITIES : TRANSLATION AND INTERPRETATION.

LANGUAGES : HINDI, POLISH, RUSSIAN, ENGLISH, ITALIAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 8, EDITING - 8, TRANSLATION - 8.

342

MISS NAIMA UBAID; (B. OCTOBER 10, 1951),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) CHEMISTRY - A.M.U. '72; M.SC. CHEMISTRY - A.M.U. '74; B.LIB.SC. - A.M.U. '75.

SPECIALIZATIONS : CHEMISTRY; ABSTRACTING AND INDEXING; SCIENCE EDITING.

EXPERIENCE : J.D.A., S.D.A., DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1977-88; DOCUMENTATION OFFICER (C), INSDOC SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : INDEXING, ABSTRACTING AND SCIENCE EDITING.

LANGUAGES : URDU, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 13, DOCUMENTATION - 13.

343

SHRI R K VERMA; (B. OCTOBER 10, 1951),

DOCUMENTATION OFFICER (C), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.SC PHYSICS - KURUKSHETRA '73; B.LIB.SC. - KURUKSHETRA '75; CERTIFICATE OF PROFICIENCY IN RUSSIAN - DELHI '78; CERTIFCATE IN COMPUTER PROGRAMMING (FORTRON IV & BASIC) - C.S.I & I.I.T, DELHI '80 & '85 RESPECTIVELY.

SPECIALIZATIONS : DOCUMENTATION; ABSTRACTING AND INDEXING; INFORMATION DISSEMINATION.

EXPERIENCE : DOCUMENTATION TRAINEE, E.T.T.D.C., NEW DELHI, 1976-77; S.D.A., DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1977-87; DOCUMENTATION OFFICER (C), INSDOC SINCE FEBRUARY, 1987

PRESENT ACTIVITIES : DOCUMENTATION.

LANGUAGES : HINDI, PUNJABI, ENGLISH, RUSSIAN.

PUBLICATIONS & PATENTS : ARTICLES - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 10, DOCUMENTATION - 14.

344

MRS LATIKA ANAND; (B. MARCH 18, 1968),

SCIENTIST B, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

345

MRS RAMESH ARORA; (B. JANUARY 16, 1946),

DOCUMENTATION OFFICER (B), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '66; B.LIB.SC. - DELHI '67.

SPECIALIZATIONS : DOCUMENTATION.

EXPERIENCE : LIBRARY ASSISTANT, DELHI UNIVERSITY, DELHI, 1967-69; J.D.A., S.D.A. AND DOCUMENTATION OFFICER (A), INSDOC, 1969-85; DOCUMENTATION OFFICER (B), INSDOC SINCE JUNE, 1985.

PRESENT ACTIVITIES : DOCUMENTATION, INFORMATION TECHNOLOGY AND COMPUTER APPLICATIONS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 21.

346

SHRI U L BARUA; (B. MAY 25, 1942),

PHOTOGRAPHIC OFFICER (B), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : MATRICULATION - BANGLADESH '58; DIPLOMA IN PHOTOGRAPHY - CALCUTTA '66.

SPECIALIZATIONS : PHOTOGRAPHY.

EXPERIENCE : PHOTOGRAPHER, PHOT. ASTT., D.E.S.I.D.O.C., 1972-78; S.T.A. AND PHOTO-OFFICER (A), INSDOC, 1978-88; PHOTO OFFICER (B), INSDOC SINCE APRIL, 1988.

PRESENT ACTIVITIES : PHOTOGRAPHY, REPROGRAPHY, MICROFILM, MICRO-FICLE OPERATION.

LANGUAGES : BENGALI, ENGLISH, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : PHOTOGRAPHY - 18.

347

SHRI I M S BHATNAGAR; (B. JANUARY 8, 1935),

DOCUMENTATION OFFICER (B), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.A. HISTORY - MEERUT '69; DIPLOMA IN LIB SCIENCE - PUNJAB '73.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION ANALYSIS.

EXPERIENCE : ASTT., N.P.L., 1955-73; J.D.A., S.D.A. AND DOCUMENTATION OFFICER (A (A), INSDOC, 1973-88; DOCUMENTATION OFFICER (B), INSDOC SINCE AUGUST, 1988.

PRESENT ACTIVITIES : DOCUMENTATION.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPROGRAPHY - 34, OTHERS - 2.

348

MRS RAMESH CHOPRA; (B. SEPTEMBER 29, 1950),

DOCUMENTATION OFFICER (B), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.A. POLITICAL SCIENCE - DELHI '72 B. LIB. SC. LIBRARY SCIENCE - DELHI '73; CERTIFICATE OF PROF. IN RUSSIAN LANG. - DELHI '75. ASSOCIATERSHIP INF. SC. - INSDOC '87;

SPECIALIZATIONS : COMPUTER SCIENCE; DOCUMENTATION; RUSSIAN LANGUAGE.

EXPERIENCE : CODER, INSDOC, 1973; CATALOGUER, NPL, 1973-74; DOCUMENTALIST, I.I.M.C., NEW DELHI, 1974-79; S.D.A. AND DOC. OFFICER (A), INSDOC, 1979-84; DOC. OFFICER (B), INSDOC SINCE SEPTEMBER, 1984.

PRESENT ACTIVITIES : COMPUTER PROCESSING.

LANGUAGES : HINDI, ENGLISH, PUNJABI, RUSSIAN.

PUBLICATIONS & PATENTS : OTHERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 17 1/2, REPROGRAPHY - 1.

349

SHRI K L KAIN; (B. MARCH 4, 1955),

DOCUMENTATION OFFICER (B), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '72; B.LIB.SCI. - DELHI '78; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC '85.

SPECIALIZATIONS : MATHEMATICS; INFORMATION DOCUMENTATION; HIGH TECHNOLOGY.

EXPERIENCE : S.D.A., DOCUMENTATION OFFICER (A), INSDOC, 1982-90; DOCUMENTATION OFFICER (B), INSDOC SINCE APRIL, 1990.

PRESENT ACTIVITIES : BIBLIOMETRIC ANALYSIS.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : ARTICLES- 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION- 12.

350

SHRI G KRISHNAPRASAD; (B. MARCH 19, 1964),

SCIENTIST B, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.E. ELECTRONICS & COMMUNICATION - MADRAS '85; D.C.A. COMPUTER APPLICATIONS - N.I.T.I.E., BOMBAY '90; M.TECH. INTEGRATED ELECTRONICS & CIRCUITS - I.I.T., DELHI (YET TO BE COMPLETED).

SPECIALIZATIONS : MICROPROCESSORS AND APPLICATIONS; INTEGRATED ELECTRONICS AND CIRCUITS; SOFTWARE DEVELOPMENT; DATA BASE DESIGN.

EXPERIENCE : ENGINEER (DIGITAL), UPTRON, LUCKNOW, 1986-87; ENGINEER (SERVICING), AURELEC, MADRAS, 1987-90; SCIENTIST B, INSDOC SINCE JANUARY, 1991.

PRESENT ACTIVITIES : DESIGN COMPUTER PROCESSING.

LANGUAGES : THULU, MALAYALAM, TAMIL, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DESIGN- 1, TESTING- 1/2, QUALITY CONTROL-1, COMPUTER PROC.- 1/2, MAINTENANCE- 2.

351

MRS MRUDULA M KULKARNI; (B. MAY 18, 1965),

SCIENTIST B, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

352

MISS SUDERSHAN KUMARI; (B. SEPTEMBER 10, 1945),

DOCUMENTATION OFFICER (B), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.A. - DELHI '65; M.A. HISTORY - PANJAB '67; B.LIB. SC. - DELHI '68; TRAINING IN FORTRAN IV - INSDOC, NEW DELHI '85.

SPECIALIZATIONS : DOCUMENTATION; LIBRARY AND INFORMATION SCIENCE.

EXPERIENCE : J.D.A., S.D.A. AND DOCUMENTATION OFFICER (A), INSDOC, 1969-85; DOCUMENTATION OFFICER (B), INSDOC SINCE JUNE, 1985.

PRESENT ACTIVITIES : DOCUMENTATION; WORKING IN INSDOC RUSSIAN INFORMATION CENTRE.

LANGUAGES : PUNJABI, HINDI, ENGLISH,

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 21.

353

SHRI B R MANDAL; (B. JANUARY 1, 1953),

DOCUMENTATION OFFICER (B), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, REGIONAL CENTRE, CALCUTTA.

QUALIFICATIONS : B.SC.-CALCUTTA '74; CERT. IN LIB.SC. '76; B. LIB.SC. - CALCUTTA '78; M. LIB. SC. - CALCUTTA '87.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION TECHNOLOGY.

EXPERIENCE : S D A AND DOCUMENTATION OFFICER(A), INSDOC, 1982-90; DOCUMENTATION OFFICER(B), INSDOC, SINCE JULY, 1990.

PRESENT ACTIVITIES : DOCUMENTATION.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION -14.

354

MRS REKHA MITTAL; (B. AUGUST 5, 1955),

SCIENTIST B, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.SC. BOTANY - AGRA '75; M.LIB.SC. - AMU '78.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION TECHNOLOGY; INFORMATION SCIENCE; COMPUTER APPLICATIONS.

EXPERIENCE : J.D.A., S.D.A., DOCUMENTATION OFFICER (A) AND DOCUMENTATION OFFICER (B), INSDOC, 1979-83; SCIENTIST B, INSDOC SINCE FEBRUARY, 1983.

LANGUAGES : HINDI.

PUBLICATIONS & PATENTS : ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDTING - 1, DOCUMENTATION - 11, COMPUTER PROCESSING - 1, ADMINISTRATION - 1.

355

MISS P NISHY; (B. DECEMBER 23, 1968),

SCIENTIST B, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.TECH COMPUTER SCIENCE & ENGINEERING - CALICUT '90.

EXPERIENCE : SCIENTTIST B, INSDOC SINCE APRIL, 1992.

LANGUAGES : MALAYALAM, ENGLISH, HINDI.

356

SHRI RADHABALLABH PAL; (B. JANUARY 6, 1943),

DOCUMENTATION OFFICER (B), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) CHEMISTRY - CALCUTTA '63; B.LIB.SC. - CALCUTTA '70; DIPLOMA IN GERMAN LANGUAGE - CALCUTTA '72; ASSOCIATE INFORMATION SCIENCE - INSDOC '84.

EXPERIENCE : J.D.A., S.D.A., AND DOCUMENTATION OFFICER (A), INSDOC, 1973-89; DOCUMENTATION OFFICER (B), INSDOC SINCE APRIL, 1989.

PRESENT ACTIVITIES : INDIAN SERIALS.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 17, REPROGRAPHY - 2, COMPUTER PROCESSING - 3.

357

SHRI SUBIR PAUL; (B. JUNE 1, 1964),

SCIENTIST B, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.E. COMPUTER SCIENCE & TECHNOLOGY - CALCUTTA '86, M.E. DIGITAL INSTRUMENTATION - CALCUTTA '90.

SPECIALIZATIONS : SYSTEM SOFTWARE; APPLICATION SOFTWARE; COMPUTER BASED SYSTEMS.

EXPERIENCE : TRAINEE ENGINEER, MICRONICS CORP., WEST BENGAL, 1986-87; S.R.F., BENGAL ENGG. COLLEGE, 1987-90; PROJECT LEADER, SYSTEM CONTROL PVT. LTD., 1990-91; SCIENTIST B, INSDOC SINCE DECEMBER, 1991.

LANGUAGES : BENGALI, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS- 1.

AWARDS & DISTINCTIONS : NATIONAL SCHOLARSHIP, GOVT. OF INDIA, 1908-86.

358

DR CHETAN SAMPAT; (B. APRIL 9, 1956),

TRANSLATION OFFICER (B), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : M.B.B.S. - BOMBAY '79; ADVANCE DIPLOMA IN GERMAN LANGUAGE -MAX MUELLER BHAVAN, PUNE '82; M.A. GERMAN - CENTRAL INSTITUTE OF ENGLISH AND FOREIGN LANGUAGES, HYDERABAD '84.

SPECIALIZATIONS : GERMAN; MEDICINE.

EXPERIENCE : TRANSLATION OFFICER (B), INSDOC SINCE AUGUST, 1982.

PRESENT ACTIVITIES : SCIENCE TRANSLATION; TEACHING.

LANGUAGES : MARATHI, GUJARATI, HINDI, ENGLISH, GERMAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : SCIENCE TRANSLATION - 8, TEACHING - 1.

359

SHRI SHANKER SHAILENDER; (B. DECEMBER 12, 1967),

SCIENTIST B, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

360

SHRI B R SHARMA; (B. MARCH 12, 1945),

PHOTOGRAPHIC OFFICER (B), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

361

SHRI CHANDRA BHUSHAN SINGH; (B. FEBRUARY 3, 1968),

SCIENTIST B, INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.TECH COMPUTER SCIENCE - AVADH '90.

SPECIALIZATIONS : SOFTWARE DEVELOPMENT.

EXPERIENCE : HARDWARE ENGINEER, ROBOTLINKS PVT. LTD., LUCKNOW, 1991-92; SCIENTIST B, INSDOC SINCE FEBRUARY, 1992.

LANGUAGES : HINDI, ENGLISH.

362

SHRI ATAULLA BAIG; (B. SEPTEMBER 8, 1942),

PHOTOGRAPHIC OFFICER (A), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : S.S.L.C. - SEC. EDUN BOARD, KARNATAK '62; P.U.C. - MYSORE '63.

EXPERIENCE : D.R.A., J.T.A. AND S.T.A., INSDOC, 1966-87; PHOTO OFFICER (A), INSDOC SINCE JUNE, 1987.

PRESENT ACTIVITIES : D.P.S.

LANGUAGES : URDU, ENGLISH, HINDI.

AWARDS & DISTINCTIONS : CASH PRIZE ON S S BHATNAGAR MEMORIAL 3RD PHOTOGRAPHY COMPETITION HELD AT MYSORE, 1989.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPROGRAPHY - 26.

363

SHRI L N BANGUR; (B. SEPTEMBER 12, 1952),

PHOTOGRAPHIC OFFICER (A), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI

QUALIFICATIONS : INTER - MADHYA PRADESH '77.

EXPERIENCE : PHOTO-STAT OPERATOR, MINISTRY OF DEFENCE, DELHI, 1974-78; J.T.A., S.T.A., INSDOC, 1978-85, PHOTO-OFFICER (A), INSDOC SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : SORTING, CHECKING OF JOURNAL FOR BINDING ETC.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPROGRAPHY- 20.

364

SHRI S K BHATIA; (B. MARCH 25, 1951),

TECHNICAL OFFICER (A), INDIAN INSTITUTE SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC - DELHI '71.

SPECIALIZATIONS : PROOF-READING OF SCIENTIFIC AND TECHNICAL DOCUMENTS.

EXPERIENCE : PROOF READER, INSDOC, 1971-91; SCIENTIST B, INSDOC SINCE FEBRUARY, 1991.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

365

SHRI A J D COUTHO; (B. NOVEMBER 9, 1953),

TECHNICAL OFFICER (A), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

366

MRS SAWITA DHAMI; (B. NOVEMBER 2, 1953),

DOCUMENTATION OFFICER (A), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - AGRA '72; M.LIB.SC. LIBRARY & INFORMATION SCIENCE - DELHI '83.

EXPERIENCE : J.D.A., S.D.A., INSDOC, 1979-88; DOCUMENTATION OFFICER (A), INSDOC SINCE APRIL, 1988.

PRESENT ACTIVITIES : DOCUMENTATION & BIBLIOMETRICS.

LANGUAGES : HINDI, ENGLISH, PUNJABI, SPANISH, RUSSIAN.

PUBLICATIONS & PATENTS : ARTICLES- 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION- 12.

367

SHRI K JAYARAJ; (B. JANUARY 27, 1950),

PRINTING OFFICER (A), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : DIPLOMA IN PHOTOGRAPHIC PRINTING & TECHNOLOGY '72.

SPECIALIZATIONS : PRINTING TECHNOLOGY; REPROGRAPHY.

EXPERIENCE : ASST. PRINTER, NANDI PRINTERS & MODERN PROCESS PRINTING, BANGALORE, 1972-73; ASSTT. LITHOGRAPHER, JR. PRINTING ASSTT., SR. PRINTING ASSTT., INSDOC, 1974-87; PRINTING OFFICER (A), INSDOC SINCE MAY, 1987.

PRESENT ACTIVITIES : PRINTING AND OPERATION OF PRINTING MACHINES.

LANGUAGES : ENGLISH, HINDI, KANNADA, TAMIL.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 3, REPROGRAPHY - 16, PRINTING TECHNOLOGY - 16.

368

SHRI UDAY PRATAP NARAIN; (B. DECEMBER 5, 1945),

PHOTOGRAPHIC OFFICER (A), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : HIGH SCHOOL '61; DIPLOMA IN POLICE PHOTOGRAPHY - NEW DELHI '73.

SPECIALIZATIONS : POLICE PHOTOGRAPHY.

EXPERIENCE : DARK ROOM ASTT., R.D.A.T., KANPUR, 1971-73; SCIENTIFIC ASTT. PHOTOGRAPHY, C.F.S.L., NEW DELHI, 1973-78; S.T.A., INSDOC, 1978-86; PHOTOGRAPHY OFFICER (A), INSDOC SINCE OCTOBER, 1986.

PRESENT ACTIVITIES : PHOTOGRAPHY AND REPROGRAPHY.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PHOTOGRAPHY - 19.

369

SHRI RAMJI PRASAD; (B. JANUARY 2, 1938),

PHOTOGRAPHIC OFFICER (A), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : MATRIC - RAJENDER COLLEGIATE SCHOOL, BIHAR '55.

SPECIALIZATIONS : REPROGRAPHY; MICROGRAPHICS.

EXPERIENCE : TECHNICAL POSTS, J.T.A. AND S.P.A., INSDOC, 1957-88; PHOTO OFFICER (A), INSDOC SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : REPROGRAPHY.

LANGUAGES : HINDI, ENGLISH, BENGALI.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPROGRAPHY- 35.

370

SHRI B S RAO; (B. OCTOBER 4, 1939),

PRINTING OFFICER (A), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : I.SC. - MYSORE '58; SENIOR TYPEWRITING - BOARD OF COMMERCIAL EDUCATION AND EXAMINATION, MYSORE '58; ENGLISH JR. SHORTHAND - BOARD OF COMMERCIAL EDUCATION AND EXAMINATION, MYSORE '63.

SPECIALIZATIONS : TYPEWRITING; DESKTOP PUBLISHING.

EXPERIENCE : IBM TYPIST, IBM TYPIST SR. GR., COLD COMPOSITOR AND SR. PRG. ASSTT., INSDOC, 1969-88; PRINTING OFFICER (A), INSDOC SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : COMPUTER PROCESSING.

LANGUAGES : KONKANI, ENGLISH, KANNADA, HINDI, TAMIL.

PUBLICATIONS & PATENTS : ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPROGRAPHY - 25, COMPUTER PROC. - 3.

371

SHRI L SHIVALINGAIAH; (B. APRIL 14, 1946),

PRINTING OFFICER (A), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, BANGALORE.

QUALIFICATIONS : S.S.L.C. - MYSORE '64; B.COM - BANGALORE '73; DIPLOMA IN PRTG. TECHNOLOGY - CBTE, BANGALORE '67.

SPECIALIZATIONS : PRINTING TECHNOLOGY.

EXPERIENCE : PRESS ATTENDANT, ASSTT. LITHOGRAPHER, J.T.A. AND SENIOR PRINTING ASISTANT, INSDOC, 1968-87; PRINTING OFFICER (A), INSDOC SINCE APRIL, 1987.

PRESENT ACTIVITIES : PRINTING AND OPERATION OF PRINTING MACHINES.

LANGUAGES : KANNADA, ENGLISH, HINDI, TAMIL.

PROFESSIONAL EXPERIENCE(IN YEARS) : OPERATION - 18, REPROGRAPHY - 18.

372

SHRI KESHAR SINGH; (B. FEBRUARY 03, 1943),

PHOTOGRAPHIC OFFICER (A), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : HIGH SCHOOL - ALLAHABAD '61.

SPECIALIZATIONS : PHOTOGRAPHY; MICROGRAPHY; REPROGRAPHY.

EXPERIENCE : S.P.A., INSDOC, 1983-88; PHOTO OFFICER (A), INSDOC SINCE SEPTEMBER, 1988.

PRESENT ACTIVITIES : PHOTOGRAPHY/REPROGRAPHY.

LANGUAGES : HINDI, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : PHOTOGRAPHY- 29.

373

SHRI M G VASANTHAMURTHY; (B. OCTOBER 18, 1943),

PRINTING OFFICER (A), INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE, NEW DELHI.

QUALIFICATIONS : B.SC. - BIHAR '65.

SPECIALIZATIONS : COMPOSING IN DESKTOP PUBLISHING.

EXPERIENCE : I.B.M. TYPIST, INSDOC, BANGLORE, 1966-78; COLD COMPOSITOR AND. SR. PTG. ASST., INSDOC, DELHI, 1979-89; PTG. OFFICER (A), INSDOC SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : COMPOSING IN DESK TOP PUBLISHING.

LANGUAGES : KANNADA, ENGLISH.

PROFESSIONAL EXPERIENCE(IN YEARS) : REPROGRAPHY - 24, OTHERS - 2.

National Institute of Science Technology &
Development Studies
New Delhi

374

DR ASHOK JAIN; (B. NOVEMBER 25, 1938),

DIRECTOR, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI

QUALIFICATIONS : B.SC. - LUCKNOW '57; M.SC. PHYSICS - LUCKNOW '59; PH.D. THEORETICAL PHYSICS - DELHI '66.

SPECIALIZATIONS : THEORETICAL PHYSICS; SCIENCE POLICY PLANNING & MANAGEMENT; TECHNOLOGY TRANSFER; INTERNATIONAL SCIENTIFIC COLLABORATION.

EXPERIENCE : RES FELLOW, KYOTO UNIVERSITY, KYOTO, JAPAN, 1963-65; LECTURER AND READER, DEPARTEMENT OF PHYSICS, UNIVERSITY OF DELHI, 1966-74; (ALSO COMMONWEALTH FELLOW, UNIVERSITY OF BRISTOL, U.K., 1970-72 AND OFFICIAL VISITOR TO INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS, TRIESTE, ITALY, 1972); SCIENTIFIC ATTACHE, EMBASSY OF INDIA, TOKYO, JAPAN, 1974-78; PRINCIPAL SCIENTIFIC OFFICER AND DIRECTOR, DEPARTEMENT OF SCIENCE & TECHNOLOGY, NEW DELHI, 1978-85; DIRECTOR, NISTADS SINCE JUNE, 1985.

PRESENT ACTIVITIES : SCIENCE POLICY PLANNING & MANAGEMENT; TECHNOLOGY TRANSFER ASSESSMENT AND FORECASTING; INTERNATIONAL SCIENTIFIC COLLABORATION.

LANGUAGES : HINDI, BENGALI, ENGLISH, JAPANESE.

VISITED : JAPAN, REPUBLIC OF KOREA, U.K., ITALY, CZECHOSLOVAKIA, PHILIPPINES, BELGIUM, CHINA, THAILAND, KENYA, MAURITIUS, MALAYSIA, VIETNAM, PAKISTAN, SRILANKA, PORTUGAL.

PUBLICATIONS & PATENTS : RES. PAPERS - 110, OTHER PUBLICATIONS - 20, SCIENTIFIC BOOKS - 4

AWARDS & DISTINCTIONS : MEMBER OF SEVERAL PROFESSIONAL BODIES AND ADVISORY COMMITTEES.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 14, APP. RES. - 8, TEACHING - 1 COLLABORATION IN S & T - 8, SCIENCE ADMN. - 19, R&D MANAGEMENT - 12, PLANNING - 11, SURVEY OF NAT RES - 8, CONSULTANCY - 8, EDITING - 8.

375

SHRI MOHAMMED ASHFAQUE QURESHI; (B. JUNE 10, 1938),

SCIENTIST F, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - A.M.U. '60; M.SC. MATHEMATICAL STATISTICS - A.M.U. '62.

SPECIALIZATIONS : STATISTICS; SCIENCE & TECHNOLOGY POLICY MANAGEMENT.

EXPERIENCE : STATISTICAL ASSISTANT, CENTRAL MECHANISED FARM, MINISTRY OF AGRICULTURE, 1962-64; S.S.A., C.B.R.I., 1964-66; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, PLANNING DIVISION, C.S.I.R., NEW DELHI, 1966-81; (ALSO TRAINING IN SOCIAL SURVEYS, U.S.A., 1977); SCIENTIST EI AND SCIENTIST EII, NISTADS, 1981-89; SCIENTIST F, NISTADS SINCE NOVEMBER, 1989.

PRESENT ACTIVITIES : RESEARCH SURVEYS; SCIENCE & TECHNOLOGY POLICY STUDIES.

LANGUAGES : URDU, HINDI, ENGLISH.

VISITED : U.K., U.S.A., S. KOREA, PAKISTAN, E. GERMANY, THAILAND, MALAYSIA, CANADA.

PUBLICATIONS & PATENTS : RES. PAPERS - 58, SCIENTIFIC BOOKS - 11.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNOLOGY TRANSFER - 2, SCIENCE POLICY STUDIES, REGIONAL PLANNING, CLIMATE POLICY - 24.

376

SHRI SHIBDAS BURMAN; (B. OCTOBER 27, 1936),

SCIENTIST EII, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) GEOLOGY & GEOPHYSICS - I.I.T., KHARAGPUR '57; M. TECH. EXPLORATION GEOPHYSICS - I.I.T., KHARAGPUR '59.

SPECIALIZATIONS : EXPLORATION GEOPHYSICS; TECHNOLOGY UTILISATION; ENERGY STUDIES; NUCLEAR AFFAIRS.

EXPERIENCE : SENIOR GEOPHYSICAL ASSISTANT AND JUNIOR GEOPHYSICIST, ONGC, DEHRA DUN, 1959-63; S.R.F., SCIENTIST B, SCIENTIST C AND SCIENTIST EI, C.S.I.R., 1963-87; (ALSO SIDA RESEARCH FELLOW FOR SEISMOLOGICAL RESEARCH, UPPSALA SWEDEN (1969-70); SCIENTIST EI, NISTADS, 1987-88; SCIENTIST EII, NISTADS SINCE JANUARY, 1988.

PRESENT ACTIVITIES : ENVIRONMENT AND NUCLEAR ACCIDENT STUDIES.

LANGUAGES : BENGALI, ENGLISH.

VISITED : SWEDEN.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, ARTICLES - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNOLOGY TRANSFER - 18, EDITING - 2, SCIENCE WRITING - 2, ENERGY STUDIES - 6, GEOPHYSICAL EXPLORATION - 6.

377

DR S MOHAN; (B. MAY 18, 1943),

SCIENTIST EII, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - B.H.U., 65; PH.D. NUCLEAR ENGINEERING - GEORGIA INSTITUTE OF TECHNOLOGY, U.S.A. '72.

SPECIALIZATIONS : NUCLEAR PHYSICS AND ENGINEERING; TECHNOLOGY FORECASTING; TECHNOLOGY ASSESSMENT.

EXPERIENCE : RESEARCH ASSISTANT, T.I.F.R., BOMBAY, 1965-67; GRADUATE RESEARCH ASSISTANT, GEORGIA INSTITUTE OF TECHNOLOGY, U.S.A., 1968-72; LECTURER, R.E.C., CALICUT, 1973-78; RESEARCH ASSOCIATE, I.I.SC., BANGALORE, 1978-79; SCIENTIST C, R.R.L., TRIVANDRUM, 1979-84; SCIENTIST EI, NISTADS, 1984-89; SCIENTIST EII, NISTADS SINCE JULY, 1989.

PRESENT ACTIVITIES : TECHNOLOGY FORECASTING; TECHNOLOGY ASSESSMENT.

LANGUAGES : MALAYALAM, HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 25.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 9, R & D MGMT. - 9, TEACHING - 5, EDITING - 2.

378

DR(MRS) S PRUTHI; (B. JANUARY 23, 1941),

SCIENTIST EII, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '62; M.SC. BOTANY - RAJASTHAN '64.

SPECIALIZATIONS : SCIENCE POLICY; TECHNOLOGY ASSESSMENT; PLANNING AND EVALUATION; R & D MANAGEMENT; SCIENCE INDICATORS.

EXPERIENCE : J.R.F., S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, C.S.I.R., 1964-82; PRINCIPAL SCIENTIFIC OFFICER, D.S.T., NEW DELHI, 1982-83; SCIENTIST EI, NISTADS, 1983-89; SCIENTIST EII, NISTADS SINCE MARCH, 1989.

PRESENT ACTIVITIES : SCIENCE POLICY STUDIES.

LANGUAGES : HINDI, ENGLISH, GERMAN.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 48, TECH. REPORTS - 8, SCIENTIFIC BOOKS - 2, ARTICLES - 4; BOOKS/JOURNALS EDITED - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 20, R & D MGMT. - 20, SCIENCE POLICY STUDIES - 10, SCIENCE ADMN. - 1.

379

SHRI V K C SANGHI; (B. OCTOBER 9, 1951),

FACULTY MEMBER (EII), NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI

QUALIFICATIONS : B.E. ELECTRICAL - INDORE '73; M.E. ELECTRICAL (CONTROL SYSTEMS) - INDORE '76; UNIVERSITY CERTIFICATE OF PROFICIENCY IN INDUSTRIAL & BUSINESS MANAGEMENT - INDORE '73.

SPECIALIZATIONS : MATERIALS MANAGEMENT; MATHEMATICAL MODELLING.

EXPERIENCE : ASSISTANT MANAGER, ORDNANCE FACTORIES BOARD, CALCUTTA, ASSISTANT MANAGER AND WORKS MANAGER, ORDNANCE FACTORY, BHUSAWAL, 1976-83; FACULTY MEMBER (EI), NISTADS, 1983-1988; SCIENTIST EII, NISTADS SINCE DECEMBER, 1988.

PRESENT ACTIVITIES : DESIGN & PLANNING OF MATERIALS MANAGEMENT PROGRAMMES, MATHEMATICAL MODELLING FOR POPULATION GROWTH AND MANPOWER PLANNING

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

VISITED : AUSTRIA, U K AND U S A.

PUBLICATIONS & PATENTS : RES. PAPERS - 2, PAPERS FOR TRAINING PROGRAMMES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : INDL. MGMT., MATERIALS MGMT., ENGG SERVICES, MAINTENANCE, TRAINING & PRODUCTION PLANNING - 8, TEACHING - 11 (GUEST AND IN-HOUSE FACULTY), PLANNING - 2, ADMN. - 14, MGMT. DEV. - 6.

380

SHRI D K ABROL; (B. APRIL 21, 1953),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.E. (HONS.) ELECTRONICS - B.I.T.S., PILANI '74; M.PHIL. SCIENCE & TECHNOLOGY POLICY - J.N.U. '76.

SPECIALIZATIONS : SCIENCE & TECHNOLOGY POLICY MANAGEMENT; R & D MANAGEMENT.

EXPERIENCE : J.R.F., J.N.U., 1975-80; SCIENTIST C, NISTADS, 1982-88; SCIENTIST EI, NISTADS SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : SCIENCE & TECHNOLOGY POLICY STUDIES; ECONOMICS OF TECHNOLOGICAL CHANGE; SOCIOLOGY OF TECHNOLOGICAL INNOVATION SYSTEMS.

LANGUAGES : PUNJABI, HINDI, ENGLISH.

VISITED : YUGOSLAVIA, ROMANIA, SWITZERLAND, U.K., NETHERLANDS.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, ARTICLES - 10, TECHNICAL REPORTS - 4, SCIENTIFIC BOOK - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : SCIENCE & TECHNOLOGY POLICY AND R & D MGMT. - 14.

381

SHRI PARTHASARATHI BANERJEE; (B. DEC 14, 1955),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.E. ELECTRICAL - JADAVPUR '78.

SPECIALIZATIONS : ECONOMICS.

EXPERIENCE : TRAINEE ENGINEER, NATIONAL ELECTRICAL ENGINEERING CO., CALCUTTA, 1978-79; LECTURER (PART-TIME), EIRC, ICWAI, CALCUTTA, 1979-80; SENIOR RESEARCH ASSISTANT, CSSSC, CALCUTTA, 1980-83; SR. TRG. OFFICER (C), NISTADS, 1983-88; SCIENTIST EI, NISTADS SINCE OCTOBER, 1988.

PRESENT ACTIVITIES : RESEARCH ON INFORMATION.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : TEACHING - 1, RESEARCH IN SCIENCE POLICY - 9

382

SHRI B M GUPTA; (B. JULY 23, 1948),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) PHYSICS - KURUKSHETRA '70; B.LIB.SC. - KURUKSHETRA '71; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC, NEW DELHI '76.

SPECIALIZATIONS : DOCUMENTATION; INFORMATION SCIENCE; BIBLIOMETRICS; ARCHIVES OF SCIENCE & TECHNOLOGY.

EXPERIENCE : PROFESSIONAL ASSISTANT, J.N.U., NEW DELHI, 1971-72; S.S.A., C.S.I.R., 1972-77; SCIENTIST A, SCIEN-

TIST B AND SCIENTIST C, NISTADS, 1977-88; SCIENTIST EI, NISTADS SINCE APRIL, 1988.

PRESENT ACTIVITIES : DEVELOPMENT OF COMPUTERISED DATA BASE ON INDIAN SCIENCE AND TECHNOLOGY POLICY & ARCHIVAL RESOURCES ON SCIENCE & TECHNOLOGY.

LANGUAGES : HINDI, ENGLISH.

VISITED : U.S.A.

PUBLICATIONS & PATENTS : RES. PAPERS - 40; SCIENTIFIC BOOKS - 13.

AWARDS & DISTINCTIONS : KRISHNAMURTHY AWARD FOR TECHNICAL WRITING, INSDOC, 1976.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 18, COMPUTER PROCESSING - 2, LIBRARY MANAGEMENT - 5.

383

SHRI V K GUPTA; (B. JUNE 15, 1949),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) MATHEMATICS - DELHI '70; M.SC. MATHEMATICS - DELHI '72.

SPECIALIZATIONS : R & D MANAGEMENT; SCIENCE POLICY.

EXPERIENCE : J.R.F. AND S.R.F., C.S.I.R., 1973-77; SCIENTIST B, C.D.R.I., LUCKNOW, 1977-80; SCIENTIST B AND SCIENTIST C, C.S.I.R., 1980-83; SENIOR TRAINING OFFICER (C), NISTADS, 1983-88; SCIENTIST EI, NISTADS SINCE APRIL, 1988.

PRESENT ACTIVITIES : ON DEPUTATION

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 9, TECH. REPORTS - 8.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 4, APP. RES. - 4, R & D MGMT. - 10.

384

SHRI M U KHAN; (B. JULY 16, 1949),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : M.SC. MATHEMATICS - AGRA '71; M.SC. SCIENCE POLICY - MANCHESTER UNIVERSITY, U.K. '83.

SPECIALIZATIONS : TECHNOLOGY POLICY.

EXPERIENCE : S.S.A., C.S.I.O., CHANDIGARH, 1973-77; SCIENTIST B, I.T.R.C., LUCKNOW, 1977-82; (ALSO HIGHER STUDIES FOR M.SC. IN SCIENCE POLICY, MANCHESTER UNIVERSITY, U.K., 1982-83); SCIENTIST C, NISTADS, 1983-88; SCIENTIST EI, NISTADS SINCE APRIL, 1988.

PRESENT ACTIVITIES : STUDIES ON IMPACT OF NEW TECHNOLOGY WITH REFERENCE TO MICROELECTRONICS.

LANGUAGES : URDU, HINDI, ENGLISH.

VISITED : U.K., CHINA, ARGENTINA, NETHERLANDS, USA, DENMARK, SWEDEN, SIERRA LEONE, PAKISTAN.

PUBLICATIONS & PATENTS : RES. PAPERS - 25, TECH. REPORTS - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MGMT. - 8, TECHNOLOGY TRANSFER - 3, RESEARCH IN SCIENCE POLICY - 6.

385

DR SUBHAN KHAN; (B. FEBRUARY 11, 1954),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) AGRICULTURE - H.A.U., HISSAR '76; M.SC. RURAL SOCIOLOGY - H.A.U., HISSAR '78; PH.D. RURAL SOCIOLOGY - H.A.U., HISSAR '83.

SPECIALIZATIONS : SOCIOLOGY OF SCIENCE; TECHNOLOGY AND RURAL DEVELOPMENT.

EXPERIENCE : J.R.F., I.C.A.R. 1976-78; LECTURER, GOVT COLLEGE, HISSAR, 1978-79; J.R.F. (CSIR), 1979-83; S.R.F., R.A. AND SCIENTIST C, NISTADS, 1983-88; SCIENTIST EI, NISTADS SINCE APRIL, 1988.

PRESENT ACTIVITIES : R & D IN COMPUTERISED NATURAL RESOURCE DATA MANAGEMENT SYSTEM, TECHNOLOGY DELIVERY SYSTEM FOR REGIONAL DEVELOPMENNT AND S & T FOR ARTISANS AND CRAFTSMEN, REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM APPLICATIONS.

LANGUAGES : HINDI, URDU, ARABIC, SANSKRIT, ENGLISH, RUSSIAN.

VISITED : BANGLADESH, MALAYSIA, SINGAPORE, USA, UK, HONGKONG.

PUBLICATIONS & PATENTS : RES. PAPERS - 125, TECH. REPORTS - 26.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 15, R & D MGMT. - 2, TEACHING - 3, TECHNOLOGY TRANSFER - 6, RESEARCH IN SCIENCE POLICY - 6.

386

SHRI V P KHARBANDA; (B. NOVEMBER 19, 1945),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) BOTANY - DELHI '68; M.SC. BOTANY - DELHI '71; M.A. CHINESE LANGUAGE - J.N.U. '78.

SPECIALIZATIONS : CHINESE SCIENCE & TECHNOLOGY POLICY; ENERGY AND DEVELOPMENT POLICY.

EXPERIENCE : PROFESSIONAL ASSISTANT, J.N.U., NEW DELHI, 1972-74; S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, NISTADS, 1974-88; SCIENTIST EI, NISTADS SINCE APRIL, 1988.

PRESENT ACTIVITIES : CHINESE SCIENCE POLICY STUDIES.

LANGUAGES : HINDI, ENGLISH, CHINESE.

PUBLICATIONS & PATENTS : RES. PAPERS - 23, TECH. REPORTS - 4, BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : CONSULTANCY - 3, SCIENCE POLICY STUDIES - 10.

387

DR V V KRISHNA; (B. SEPTEMBER 1, 1951),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - OSMANIA '73; M.A. SOCIOLOGY - OSMANIA '75; M.PHIL. SOCIOLOGY (APPROPRIATE TECHNOLOGY) - OSMANIA '81; PH.D. SOCIOLOGY OF SCIENCE - WOLLONGONG UNIVERSITY, AUSTRALIA '87.

SPECIALIZATIONS : SOCIOLOGY OF SCIENCE.

EXPERIENCE : J.L.A., N.G.R.I., 1972-77; J.T.A., C.S.I.R., 1977-82; SCIENTIST B AND SCIENTIST C, NISTADS, 1982-90; SCIENTIST EI, NISTADS SINCE JANUARY, 1990.

PRESENT ACTIVITIES : RESEARCH IN SOCIAL HISTORY OF SCIENCE AND SOCIOLOGY OF SCIENCE.

LANGUAGES : TELUGU, HINDI, ENGLISH.

VISITED : SINGAPORE, AUSTRALIA, THAILAND, FRANCE.

PUBLICATIONS & PATENTS : RES. PAPERS - 11, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNOLOGY TRANSFER - 3, RESEARCH IN SOCIOLOGY OF SCIENCE & SOCIAL HISTORY OF SCIENCE - 8.

388

DR DEEPAK KUMAR; (B. AUGUST 15, 1952),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI

QUALIFICATIONS : B.A. (HONS.) HISTORY - PATNA '70; M.A. HISTORY - PATNA '73; PH.D. HISTORY - DELHI '86, LL.B. - PATNA '76.

SPECIALIZATIONS : HISTORY OF SCIENCE; MODERN INDIAN HISTORY.

EXPERIENCE : J.R.F. (UGC), PATNA UNIVERSITY, 1976; LECTURER, KURUKSHETRA UNIVERSITY, 1976-83; SCIENTIST C, NISTADS, 1983-88; SCIENTIST EI, NISTADS SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH IN HISTORY OF SCIENCE.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 12, BOOK EDITED - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 8, TEACHING - 7.

389

SHRI AVINASH K MATHUR; (B. MARCH 12, 1951),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - DELHI '72; M.B.A. BUSINESS ADMINISTRATION - CALCUTTA '80.

SPECIALIZATIONS : SCIENCE COMMUNICATION; RURAL TECHNOLOGY.

EXPERIENCE : J.S.A. AND S.S.A., D.R.D.L., HYDERABAD, 1973-76; TECHNICAL OFFICER, INSTITUTION OF ENGINEERS, CALCUTTA, 1976-84; PROGRAMME OFFICER (C), NISTADS, 1984-89; SCIENTIST EI, NISTADS SINCE AUGUST, 1989.

PRESENT ACTIVITIES : RESEARCH IN RURAL TECHNOLOGY AND SCIENCE COMMUNICATION.

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LANGUAGES: HINDI ,URDU, BENGALI, PUNJABI, ENGLISH, FRENCH.

PUBLICATIONS & PATENTS : RES. PAPERS - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D. - 4, EDITING ENGINEERING JOURNALS - 6 RESEARCH IN SCIENCE POLICY ISSUES - 2.

390

DR(MRS) NISHA MISRA; (B. MARCH 7, 1941),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - LUCKNOW '58; M.SC. BOTANY - LUCKNOW '62; PH.D. BOTANY - AGRA '72.

SPECIALIZATIONS : BOTANY; SCIENCE EDITING; SCIENCE PLANNING.

EXPERIENCE : J.R.F., J.S.A. AND S.S.A., N.B.R.I., 1962-75; S.T.A., SCIENTIST A AND SCIENTIST B, C.S.I.R., 1975-83; SCIENTIST C, NISTADS, 1983-89; SCIENTIST EI, NISTADS SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : SCIENCE POLICY STUDIES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 15, TECH. REPORTS - 1, ARTICLES - 17.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 13, PLANNING - 4, EDITING - 4, RESEARCH IN SCIENCE POLICY - 4.

391

SHRI A K MUKHOPADHYAY; (B. OCTOBER 24, 1952),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.E. METALLURGY - CALCUTTA '78; M.TECH. MECHANICAL - I.I.T. KHARGPUR '80.

SPECIALIZATIONS : RURAL TECHNOLOGY DEVELOPMENT; RESOURCE PLANNING; FOUNDRY ENGINEERING.

EXPERIENCE : SCIENTIST B, MERADO, LUDHIANA, 1981-85; SCIENTIST C, NISTADS, 1986-89; SCIENTIST EI, NISTADS SINCE MARCH, 1989.

PRESENT ACTIVITIES : TECHNO-ECONOMIC SURVEYS; TECHNOLOGY DEVELOPMENT; TECHNOLOGY TRANSFER; RURAL DEVELOPMENT.

LANGUAGES : BENGALI, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPER - 2, TECH. REPORTS - 6, ARTICLES - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 1, SURVEY OF NAT. RES -1, DESIGN - 1, TESTING

- 4, TECHNO-ECO SURVEY - 7, TECH. TRANSFER-6, CONSULTANCY - 4.

392

MRS M P K NAGPAL; (B. FEBRUARY 1, 1951),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - JODHPUR '70; M.SC. BOTANY - SARDAR PATEL '72; B.LIB.SC. - RAJASTHAN '73; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC, NEW DELHI '79.

SPECIALIZATIONS : SCIENCE POLICY; INFORMATION SCIENCE; SCIENCE EDITING.

EXPERIENCE : S.S.A., SCIENTIST A, SCIENTIST B AND SCIENTIST C, NISTADS, 1974-88; SCIENTIST EI, NISTADS SINCE APRIL, 1988.

PRESENT ACTIVITIES : SCIENCE EDITING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 8.

393

SHRI PRADOSH NATH; (B. SEPTEMBER 23, 1953),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : M.A. ECONOMICS - CALCUTTA '74.

SPECIALIZATIONS : INTERNATIONAL ECONOMICS; MATHEMATICAL ECONOMICS.

EXPERIENCE : RESEARCH FELLOW, PRESIDENCY COLLEGE, CALCUTTA, 1975-79; PROJECT ECONOMIST, INDIAN INSTITUTE OF PUBLIC ADMINISTRATION, NEW DELHI, 1979-82; PROJECT MANAGER, S & T FIELD STATION (CSIR), BANKURA, 1982-85; SCIENTIST C, NISTADS, 1985-88; SCIENTIST EI, NISTADS SINCE MAY, 1988.

PRESENT ACTIVITIES : TECHNOLOGY ASSESSMENT - R & D PRODUCTIVITY AND ECONOMIC GROWTH.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 8, TECH. REPORTS - 4, MONOGRAPHS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : RESEARCH IN SCIENCE POLICY - 7.

394

SHRI M RAHMAN; (B. JANUARY 1, 1939),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - A.M.U. '62; M.SC. STATISTICS - A.M.U. '64; P.G. DIPLOMA IN RESEARCH METHODOLOGY - N.C.E.R.T. '66; CERTIFICATE IN INDUSTRIAL DEVELOPMENT WITH PARTICULAR REFERENCE TO TECHNOLOGY CHOICE - GLASGOW, U.K. '81.

SPECIALIZATIONS : PLANNING, MONITORING AND EVALUATION OF RESEARCH PROJECTS.

EXPERIENCE : S.T.A., DIRECTORATE OF ECONOMICS AND STATISTICS, MINISTRY OF AGRICULTURE, NEW DELHI, 1967-72; S.T.A., S.S.A., SCIENTIST A AND SCIENTIST B, C.S.I.R., 1972-83; SCIENTIST C, NISTADS, 1983-88; SCIENTIST EI, NISTADS SINCE APRIL, 1988.

PRESENT ACTIVITIES : PLANNING, MONITORING AND EVALUATION OF RESEARCH PROJECTS.

LANGUAGES : URDU, HINDI, ENGLISH, ARABIC.

VISITED : U.K.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 30, ARTICLES - 10, S & T PROFILES OF COMMON WEALTH COUNTRIES - 10.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 13.

395

SHRI GAUHAR RAZA; (B. AUGUST 17, 1956),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. (ENGG.) ELECTRICAL - A.M.U. '77; M.TECH. ELECTRICAL ENGINEERING - I.I.T., DELHI '79; CERTIFICATE IN GERMAN LANGUAGE - J.N.U. '79.

SPECIALIZATIONS : ELECTRICAL ENGINEERING; SCIENCE POLICY STUDIES; POWER APPARATUS AND SYSTEM; SCIENCE COMMUNICATION.

EXPERIENCE : TRAINEE, JUNIOR EXECUTIVE AND SENIOR ENGINEER, EICHER GOOD EARTH LTD., FARIDABAD, 1979-82; SCIENTIST C, NISTADS, 1982-88; SCIENTIST EI, NISTADS SINCE APRIL, 1988.

PRESENT ACTIVITIES : RESEARCH IN SCIENCE POLICY AND COMMUNICATION OF SCIENCE.

LANGUAGES : URDU, HINDI, ENGLISH, GERMAN.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 3, DESIGN - 3, TECH. DEV. - 3, PILOT PLANT - 3, RESEARCH IN TECH ASSESMENT, ABSORBTION, ASSIMILATION TRANSFER - 8, RESEARCH IN COMMUNICATION OF SCIENCE - 8.

396

SHRI NAVJYOTI SINGH; (B. FEBRUARY 28, 1958),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.TECH. MECHANICAL ENGINEERING - I.I.T., KANPUR '79; M.TECH. NUCLEAR ENGINEERING AND TECHNOLOGY - I.I.T., KANPUR '81.

SPECIALIZATIONS : HISTORY AND PHILOSOPHY OF SCIENCE; REACTOR PHYSICS.

EXPERIENCE : S.R.F., SCIENTIST B AND SCIENTIST C, NISTADS, 1983-88; SCIENTIST EI, NISTADS SINCE MAY, 1988.

PRESENT ACTIVITIES : FOUNDATION AND METHODOLOGY OF THEORETICAL SCIENCES IN INDIAN TRADITION.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 6.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7.

397

SHRI ABDUL WAHID; (B. MARCH 25, 1951),

SCIENTIST EI, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS.) MATHEMATICS - DELHI '70; M.SC. OPERATIONAL RESEARCH - DELHI '72.

SPECIALIZATIONS : OPERATIONAL RESEARCH; INFORMATION SYSTEM DESIGN; R & D PLANNING AND MANAGEMENT; SOFTWARE DEVELOPMENT; PROGRAMMING.

EXPERIENCE : J.R.F. AND S.R.F., C.S.I.R., 1972-77; SCIENTIST B, R.R.L., JORHAT, 1977-79; TRAINING OFFICER AND SCIENTIST B, C.S.I.R., 1979-81; SCIENTIST C, NISTADS, 1981-87; SCIENTIST EI, NISTADS SINCE NOVEMBER, 1987.

PRESENT ACTIVITIES : INFORMATION SYSTEM DESIGN; SOFTWARE DEVELOPMENT; MAINTAINENCE OF DATABASES.

LANGUAGES : HINDI, ENGLISH.

VISITED : THAILAND, BANGLADESH, FRANCE

PUBLICATIONS & PATENTS : RES. PAPERS - 12, TECH. REPORTS - 17.

AWARDS & DISTINCTIONS : COMMENDATION CERTIFICATE AND PLAQUE FOR DEVELOPMENT OF PROJECT ACCOUNTING SYSTEM (IMPACT), CSIR, 1994.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MGMT. - 12, PLANNING - 10, COMPUTER PROCESSING - 17.

398

DR(MRS) APARNA BASU; (B. FEBRUARY 02, 1949),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) PHYSICS - DELHI '68; M.SC. THEORATICAL PHYSICS - DELHI '70; M.S. PLASMA PHYSICS - CARNELL UNIVERSITY, U.S.A. '73; PH.D. THEORATICAL PLASMA PHYSICS - GUJARAT '86.

SPECIALIZATIONS : MATHEMATICAL MODELLING IN S & T STUDIES; DIGITAL REMOTE SENSING; FRACTALS AND CHAOS.

EXPERIENCE : TEACHING ASSISTANT, CARNELL UNIVERSITY, U.S.A., 1970-73; LECTURER, MIRANDA HOUSE, UNIVERSITY OF DELHI, 1973-74; P.D.F., P.R.L., AHMEDABAD, 1984-86; SCIENTIST D, SPACE APPLICATIONS CENTRE, AHMEDABAD, 1986-88; QUICK HIRE FELLOW, NISTADS, 1988-91; SCIENTIST C, NISTADS SINCE AUGUST, 1991.

PRESENT ACTIVITIES : APPLIED RESEARCH.

LANGUAGES : BENGALI, HINDI, ENGLISH.

VISITED : USA, ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 12. TECH. REPORTS - 6, ARTICLES - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 6, APPLIED RESEARCH - 6.

399

SHRI P R BOSE; (B. DECEMBER 5, 1952),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.A. - PANJAB '72; B.ED. - PANJAB '73; M.A. ECONOMICS - MEERUT '75; ADVANCED COURSE IN RESEARCH METHODOLOGY - N.I.R.D., HYDERABAD '78; CERTIFICATE IN COBOL PROGRAMMING - INSTITUTE OF COMPUTER AND MANAGEMENT STUDIES, DELHI '82; DIPLOMA IN S & T - BITS, PILANI '89.

SPECIALIZATIONS : TECHNOLOGY TRANSFER.

EXPERIENCE : J.T.A., S.T.A. AND SCIENTIST B, NISTADS, 1977-89; SCIENTIST C, NISTADS SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : SCIENCE POLICY STUDIES.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 17, TECH. REPORTS - 5, BOOKS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING - 6, TECHNOLOGY TRANSFER - 6.

400

MRS RADHA CHAKRAVARTHY; (B. FEBRUARY 5, 1945),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.A. - BANGALORE '64; M.A. SOCIOLOGY - OSMANIA '73; M.PHIL. SOCIOLOGY - OSMANIA '79; PH.D. - OSMANIA '82.

SPECIALIZATIONS : SOCIAL DIMENSION OF SCIENCE & TECHNOLOGY; WOMEN IN S & T DEVELOPMENT.

EXPERIENCE : LECTURER, OSMANIA UNIVERSITY, 1973; S.R.F. AND SCIENTIST B, NISTADS, 1981-88; SCIENTIST C, NISTADS SINCE MARCH, 1988.

PRESENT ACTIVITIES : PLANNING, ORGANISATION AND SOCIOLOGY OF RESEARCH; STUDIES ON WOMEN IN S & T PROFESSIONS IN INDIA; PROJECT ON WOMEN IN SCIENCE & TECHNOLOGY, ASIAN REGION.

LANGUAGES : TAMIL, HINDI, ENGLISH.

VISITED : U.K., U.S.A., BANGLADESH.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, MONOGRAPHS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : PLANNING, ORGANISATION AND SOCIOLOGY RESEARCH - 7, STUDIES ON WOMEN SCIENTISTS, PROJECT WISTAR - 8.

401

SHRI SUNIL K DHAWAN; (B. AUGUST 16, 1954),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS) MATHEMATICS - DELHI '73; M.SC. STATISTICS - DELHI '75.

SPECIALIZATIONS : R & D MANAGEMENT; BEHAVIOURAL SCIENCE; STATISTICS.

EXPERIENCE : RESEARCH ASSISTANT AND RESEARCH OFFICER, MINISTRY OF INDUSTRY, NEW DELHI, 1976-81; RESEARCH FELLOW, GENERAL ELECTRIC CO. (INDIA) LTD., CALCUTTA, 1981-82; ANALYST (B), NISTADS, 1982-87; SCIENTIST C, NISTADS SINCE JULY, 1987.

PRESENT ACTIVITIES : IMPARTING TRAINING TO S & T PERSONNEL OF CSIR ON R & D MANAGEMENT; RESEARCH ON QUALITY IMPROVEMENT OF WORK LIFE OF THE SCIENTIFIC COMMUNITY.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 39, TECH. REPORTS - 15.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, R & D MANAGEMENT - 5, COMPUTER PROGRAMMING - 2.

402

SHRI K C GARG; (B. JANUARY 8, 1952),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '71; M.A. MATHEMATICS - AGRA '78; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC, NEW DELHI '81.

SPECIALIZATIONS : LIBRARY SCIENCE; DOCUMENTATION; SCIENTOMETRICS.

EXPERIENCE : TECHNICIAN, N.M.E.P., DELHI, 1971-75; J.S.A. AND S.S.A., DESIDOC, DELHI, 1975-83; SCIENTIST B, NISTADS, 1983-88; SCIENTIST C, NISTADS SINCE JULY, 1988.

PRESENT ACTIVITIES : SCIENTOMETRIC STUDIES.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 24.

PROFESSIONAL EXPERIENCE(IN YEARS) : TESTING - 4, LIBRARIANSHIP AND DOCUMENTATION - 9, SCIENTOMETRICS - 5.

403

DR IRFAN HABIB; (B. APRIL 26, 1953),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : M.A. HISTORY - MEERUT '74; PH.D. HISTORY - MEERUT '81.

SPECIALIZATIONS : HISTORY OF SCIENCE.

EXPERIENCE : LECTURER, D.A.V.P.G. COLLEGE, BULANDSHAHAR, U.P., 1977-80; RESEARCH ASSOCIATE AND SCIENTIST B, NISTADS, 1982-89; SCIENTIST C, NISTADS SINCE MAY, 1989.

PRESENT ACTIVITIES : SOCIO-CULTURAL AND INTELLECTUAL HISTORY OF SCIENTIFIC KNOWLEDGE DURING THE 19TH AND EARLY 20TH CENTURY INDIA.

LANGUAGES : URDU, HINDI, ENGLISH, FRENCH.

VISITED : FRANCE, ITALY, UK, GERMANY.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 12, TEACHING - 3.

404

MRS NIRMAL HARITASH; (B. AUGUST 29, 1949),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '70; M.SC. BOTANY - B.I.T.S., PILANI '72.

SPECIALIZATIONS : DESERT ECOLOGY; SCIENCE POLICY STUDIES.

EXPERIENCE : J.R.F., S.R.F. AND RESEARCH ASSOCIATE, C.S.I.R., 1974-82; SCIENTIST B, NISTADS, 1982-87; SCIENTIST C, NISTADS SINCE MARCH, 1987.

PRESENT ACTIVITIES : STUDIES ON THE ROLE OF PARLIAMENT IN SCIENCE POLICY FORMULATION.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 11, BOOKS - 1, TECH. REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNOLOGY TRANSFER - 2, SCIENCE POLICY STUDIES - 12.

405

DR P V S KUMAR; (B. JANUARY 15, 1952),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - SRI VENKATESWARA '71; M.SC. PHYSICAL ANTHROPOLOGY - SRI VENKATESWARA '73; PH.D. SOCIOLOGY-DEMOGRAPHY - IIT, BOMBAY '79.

SPECIALIZATIONS : DEMOGRAPHY; HEALTH/FAMILY PLANNING STUDIES; RURAL DEVELOPMENT; SCIENCE AND TECHNOLOGY POLICY; PHYSICAL ANTHROPOLOGY.

EXPERIENCE : SR.ASSTT., IIT, BOMBAY, 1979-80; FELLOW, IIM, AHMEDABAD, 1980-81; HEAD PROJECT ANALYSIS, IGSSS, NEW DELHI, 1981-84; ASSOCIATE FELLOW, CESS, HYDERABAD, 1984-87; SCIENTIST C, NISTADS SINCE AUGUST, 1987.

PRESENT ACTIVITIES : APPLIED RESEARCH; SCIENCE & TECHNOLOGY POLICY.

LANGUAGES : TELUGU, ENGLISH, HINDI.

VISITED : ENGLAND.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, ARTICLES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : APP. RES. - 15, TEACHING - 2, TECHNO- ECONOMIC SURVEYS - 3, COMPUTER PROCESSING - 2, ADMINISTRATION - 3.

406

SHRI RAMESH KUNDRA; (B. JUNE 20, 1949),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - PANJAB '69; A.I.C. CHEMISTRY - INSTITUTION OF CHEMISTS (INDIA) '73; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC, NEW DELHI '83. DIPLOMA IN S & T - BITS '89.

SPECIALIZATIONS : ENVIRONMENTAL SCIENCE; INFORMATION SCIENCE; SCIENCE EDITING.

EXPERIENCE : J.L.A., S.L.A. AND J.S.A., N.E.E.R.I., NAGPUR, 1970-77; J.T.A., S.T.A. AND SCIENTIST B, NISTADS, 1977-89; SCIENTIST C, NISTADS SINCE FEBRUARY, 1989.

PRESENT ACTIVITIES : INFORMATION DISSEMINATION; SCIENCE EDITING.

LANGUAGES : HINDI, PUNJABI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 12.

PROFESSIONAL EXPERIENCE(IN YEARS) : DOCUMENTATION - 8, APP. RES. - 9, EDITING - 3.

407

MISS USHA MENON; (B. FEBRUARY 12, 1949),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. CHEMISTRY - MADRAS '69; M SC. CHEMISTRY - I.I.T., MADRAS '71.

SPECIALIZATIONS : TECHNOLOGY POLICY; INTELLECTUAL PROPERTY RIGHTS; INDUSTRIAL INNOVATION; BIODIVERSITY.

EXPERIENCE : RESEARCH OFFICER, UNIVERSITY OF NIJMEGAN, NETHERLAND, 1981-83; STAFF MEMBER, CENTRE FOR RESEARCH ON MNIS, AMSTERDON, 1985-87; FELLOW (QHS), MEMBER CORE GROUP AND VOLUNTEER, NISTADS, 1983-91; SCIENTIST C, NISTADS SINCE SEPTEMBER, 1991.

LANGUAGES : MALAYALAM, ENGLISH, DUTCH, HINDI.

VISITED : THE NETHEIRLANDS.

PUBLICATIONS & PATENTS : RES. PAPERS - 6, TECH. REPORTS - 2, ARTICLE - 6, POPULAR SCIENCE BOOKS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 6, APPLIED RESEARCH - 9.

408

MISS N MRINALINI; (B. NOVEMBER 5, 1956),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '77; M.SC. CHEMISTRY - DELHI '79.

SPECIALIZATIONS : ORGANIC CHEMISTRY; INDUSTRIAL R & D AND TECHNOLOGY POLICY.

EXPERIENCE : J.R.F., S.R.F. AND SCIENTIST B, NISTADS, 1980-88; SCIENTIST C, NISTADS SINCE MARCH, 1988.

PRESENT ACTIVITIES : MEASURE OF TECHNOLOGICAL PROGRESS; SELF-RELIANCE AND TECHNICAL CHANGE.

LANGUAGES : HINDI, TAMIL, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7, TECHNICAL REPORTS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : INDUSTRIAL R & D AND TECHNOLOGY POLICY - 10.

409

SHRI R K M NAIR; (B. SEPTEMBER 10, 1954),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

410

SHRI DHREV RAINA; (B. SEPTEMBER 20, 1958),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - BANGALORE '78; M.SC PHYSICS - IIT, BOMBAY '80.

SPECIALIZATIONS : HISTORY AND PHILOSOPHY OF SCIENCE.

EXPERIENCE : FELLOW, KSCST, BANGALORE, 1981-89; FELLOW, ICPR, 1984-86; EDITOR, THE WORLD SCIENCE, 1986-87; QHS FELLOW, NISTADS, 1988-91; SCIENTIST C, NISTADS SINCE SEPTEMBER, 1991.

PRESENT ACTIVITIES : RESEARCH; HISTORY AND PHILOSOPHY OF SCIENCE.

LANGUAGES : KASHMIRI, ENGLISH, FRENCH, TAMIL, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 24, TECH. REPORTS - 1, POPULAR SCIENCE BOOK - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : EDITING - 1, APPLIED RESEARCH - 10.

411

SHRI SANTANU ROY; (B. DECEMBER 18, 1958),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : M.S. PHYSICS - I.I.T., DELHI '80.

SPECIALIZATIONS : R & D MANAGEMENT; PHYSICS.

EXPERIENCE : J.R.F., C.S.I.R., 1981-83; ANALYST (B), NISTADS, 1983-88; SCIENTIST C, NISTADS SINCE APRIL, 1988.

PRESENT ACTIVITIES : ORGANISATION OF TRAINING PROGRAMMES; RESEARCH ON 'MANAGERIAL CULTURE' AND 'QUALITY OF WORK LIFE' AND CRITICAL FACTORS IN SUCCESSFUL PROJECTS.

LANGUAGES : BENGALI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECHNICAL REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : R & D MGMT. - 6.

412

DR SATPAL SANGWAN; (B. FEBRUARY 2, 1956),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : M.A. HISTORY - KURUKSHETRA '78; M.PHIL. HISTORY - KURUKSHETRA '79; PH.D. MODERN HISTORY - KURUKSHETRA '86.

SPECIALIZATIONS : HISTORY OF SCIENCE.

EXPERIENCE : J.R.F. (INSA), KURUKSHETRA UNIVERITY, 1980-83; S.R.F. AND SCIENTIST B, NISTADS, 1983-89; SCIENTIST C, NISTADS SINCE MAY, 1989.

PRESENT ACTIVITIES : HISTORY OF SCIENCE.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7.

413

SMT ANURADHA SINGH; (B. AUGUST 31, 1956),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : M.A. PHILOSOPHY - DELHI '78; M.PHIL. PHILOSOPHY - DELHI '80.

SPECIALIZATIONS : PHILOSOPHY OF ECOLOGY; HISTORY AND PHILOSOPHY OF INDIAN SYSTEMS OF MEDICINE; INDIAN PHILOSOPHY.

EXPERIENCE : S.R.F. AND SCIENTIST B, NISTADS, 1983-89; SCIENTIST C, NISTADS SINCE MAY, 1989.

PRESENT ACTIVITIES : RESEARCH ON FOUNDATIONS OF HISTORY AND PHILOSOPHY OF INDIAN MEDICINE.

LANGUAGES : HINDI, SANSKRIT, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 7.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 7.

414

SHRI S S SOLANKI; (B. MARCH 22, 1949),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.A. - DELHI '72; M.A. ECONOMICS - MEERUT '74; B.ED. - KURUKSHETRA '75.

SPECIALIZATIONS : RURAL TECHNOLOGY; RURAL TECHNOLOGY TRANSFER.

EXPERIENCE : J.T.A., S.S.A. AND SCIENTIST B, NISTADS, 1977-88; SCIENTIST C, NISTADS SINCE FEBRUARY, 1988.

PRESENT ACTIVITIES : RURAL DEVELOPMENT; TECHNOLOGY TRANSFER.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 20, TECH. REPORTS - 3, BOOKS (ED.) - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNO ECONOMIC SURVEYS - 2, PLANTING - 1, TECHNOLOGY TRANSFER - 2, STUDIES ON IMPACT OF S & T ON SOCIETY - 3, RURAL DEV. & SKILL FORMATION OF RURAL WORKER - 3, SMALL SCALE ENTREPRENEURS CHARACTERISTICS FOR INDUSTRIAL DEVELOPMENT - 2.

415

MRS S VISALAKSHI; (B. JULY 9,. 1949),

SCIENTIST C, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : M.SC. ZOOLOGY - MADURAI '70; M.PHIL. LIFE SCIENCES - J.N.U. '73.

SPECIALIZATIONS : ZOOLOGY; HISTORY OF BIOLOGY.

EXPERIENCE : RESEARCH ASSISTANT, NATIONAL INSTITUTE OF COMMUNICABLE DISEASES, DELHI, 1970-71; RESEARCH ASSISTANT, J.N.U., DELHI, 1971-74; S.T.A. AND SCIENTIST A, I.I.C.B., CALCUTTA, 1974-79; SCIENTIST B, NISTADS, 1979-86; SCIENTIST C, NISTADS SINCE FEBRUARY, 1986.

PRESENT ACTIVITIES : RESEARCH IN TECHNOLOGY ASSESSMENT, TECHNOLOGY TRANSFER AND TECHNOLOGY FORECASTING WITH REGARD TO BIOTECHNOLOGY.

LANGUAGES : TAMIL, ENGLISH.

VISITED : ITALY.

PUBLICATIONS & PATENTS : RES. PAPERS - 3.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 10, RESEARCH IN SCIENCE POLICY - 7.

416

SHRI SUJIT BHATTACHARYA; (B. FEBRUARY 22, 1965),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : M.SC. PHYSICS - DELHI '88; ASSOCIATESHIP IN INFORMATION SCIENCE - INSDOC '90; DIPLOMA IN COMPUTER APPLICATIONS - NITIE '90.

SPECIALIZATIONS : PHYSICS; INFORMATION SCIENCE & TECHNOLOGY.

EXPERIENCE : INFORMATION OFFICER, N.I.C., 1990-91; SCIENTIST B, NISTADS SINCE SEPTEMBER, 1991.

LANGUAGES : BENGALI, HINDI, ENGLISH.

417

DR(MRS) TABASSAM JAMAL; (B. MAY 19, 1959),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.A. (HONS.) ECONOMICS - MEERUT '78; M.A. ECONOMICS - MEERUT '80; PH.D. INTERNATIONAL ECONOMICS - A M U '88.

SPECIALIZATIONS : INDUSTRIAL TRADE; INDO-AFRICAN ECO-TECH RELATIONS; SOUTH - SOUTH TECHNOLOGY CO-OPERATION; INTERNATIONAL TECHNOLOGY TRANSFER.

EXPERIENCE : J.R.F. AND S.R.F., NISTADS, 1983-87; SCIENTIST B, NISTADS SINCE JULY, 1987.

PRESENT ACTIVITIES : RESEARCH STUDIES ON INTERNATIONAL TECHNOLOGY TRANSFER.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 4, TECH. REPORTS - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNOLOGY TRANSFER - 5.

418

SHRI VIJENDRA JOSHI; (B. OCTOBER 02, 1951),

LIBRARIAN (B), NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STIDIES, NEW DELHI.

QUALIFICATIONS : B.SC BOTANY - KARNATAKA '71; B.LIB.SC. LIBRARY SCIENCE - KARNATAKA '73; M.A. ECONOMICS - HIMACHAL PRADESH '80; A.I.SC. INFORMATION SCIENCE - INSDOC, NEW DELHI '90.

SPECIALIZATIONS : LIBRARY & INFORMATION SCIENCE.

EXPERIENCE : ASSTT. LIB., DIST. CENTRAL LIBRARY, SHIMOGA, 1973-74; LIBRARIAN, RAMAKRISHNA INST. OF SPIRITUAL & MORAL EDUCATION, MYSORE, 1974-75; LIBRARY ASSISTANT G-III AND LIBRARY ASSISTANT G-I, INDIAN INST. OF MANAGEMENT, BANGALORE, 1975-84; LIBRARIAN, WADIA INST. OF HIMALAYA GEOLOGY, DEHRA DUN, 1984-87; LIBRARIAN (B), NISTADS SINCE JUNE, 1987.

PRESENT ACTIVITIES : LIBRARY ORGANISTATION AND MANAGEMENT.

LANGUAGES : KANNADA, ENGLISH, MARATHI, TELGU, HINDI.

PROFESSIONAL EXPERIENCE(IN YEARS) : LIBRARY DOCUMENTATION - 19.

419

SHRI NARESH KUMAR; (B. SEPTEMBER 05, 1967),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - ROHILKHAND '86; M.SC. MATHS - ROHILKAND '88.

SPECIALIZATIONS : MATHEMATICS; STATISTICS.

EXPERIENCE : J.T.A., CBRI, 1989-91; SCIENTIST B, NISTADS SINCE OCTOBER, 1991.

PRESENT ACTIVITIES : R & D; TECHNOLOGY TRANSFER MATHS, STATISTICAL METHOD.

LANGUAGES : HINDI, ENGLISH, SANSKRIT.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 1, APPLIED RESEARCH - 1, TECH. TRANSFER - 1.

420

DR(MRS) YENNAPU MADHAVI; (B. MAY 04, 1964),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - ANDHRA '84; M.SC. LIFE SCIENCE - J N U '86; PH.D. RADIATION BIOLOGY - J N U '92.

SPECIALIZATIONS : RADIATION BIOLOGY.

EXPERIENCE : SCIENTIST B, NISTADS SINCE JULY, 1992.

LANGUAGES : TELUGU, ENGLISH, HINDI.

421

DR(MRS) KAVITA MEHRA; (B. SEPTEMBER 16, 1954),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE TECHNOLOGY & DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. (HONS.) BOTANY - DELHI '75; M.SC. BOTANY - DELHI '77; M.PHIL. BOTANY - DELHI '78; PH.D BOTANY - DELHI '82.

SPECIALIZATIONS : PLANT TISSUE CULTURE.

EXPERIENCE : J.R.F. AND S.R.F., 1978-82; S.S.O., D.S.T., 1982-85; LECTURER IN BOTANY, GARGI COLLEGE, DELHI UNIVERSITY, 1985-87; SCIENTIST B, NISTADS SINCE APRIL, 1987.

PRESENT ACTIVITIES : INSTITUTION BUILDING IN THE AREA OF MODERN BIOLOGY; ASSESSMENT OF PLANT TISSUE CULTURE TECHNOLOGY IN INDIA.

LANGUAGES : HINDI, BENGALI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 13.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 5, TEACHING - 2.

422

SHRI A S MOKHADE; (B. JUNE 02, 1965),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.E. MECHANICAL ENGINEERING - NAGPUR '86; M.TECH. COMPUTER SCIENCE & ENGINEERING - I.I.T., BOMBAY '88.

EXPERIENCE : CUSTOMER SUPPORT EXECUTIVE, WIPRO INFOTECH LTD, BANGALORE, 1988-90; SCIENTIST B, NISTADS SINCE JULY, 1992.

LANGUAGES : MARATHI, ENGLISH, HINDI.

423

MRS NEELAM PRASAD; (B. JUNE 28, 1955),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.A.(HONS) PSYCHOLOGY - PATNA '76; M.A. PSYCHOLOGY - PATNA '80; M.PHIL PSYCHOLOGY - J N U '89.

SPECIALIZATIONS : PSYCHOLOGY OF SCIENCE.

EXPERIENCE : SCIENTIST B, NISTADS SINCE OCTOBER, 1992.

LANGUAGES : HINDI, ENGLISH.

424

DR LALLAN P RAI; (B. JULY 1, 1952),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - B.H.U. '71; M.SC. MATHEMATICS - B.H.U. '74; PH.D. MATHEMATICS - B.H.U. '77.

SPECIALIZATIONS : TECHNOLOGY FORECASTING AND ASSESSMENT; MATHEMATICAL MODELLING; OPERATIONAL RESEARCH.

EXPERIENCE : P.D.F., C.S.I.R., 1978-85; RESEARCH ASSOCIATE, NISTADS, 1985-87; SCIENTIST B, NISTADS SINCE APRIL, 1987.

PRESENT ACTIVITIES : TECHNOLOGY FORECASTING AND MATHEMATICAL MODELLING.

LANGUAGES : HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 22, TECH.REPORTS - 4, ARTICLES - 2.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RES. - 10, APP.RES. - 8, SURVEY OF NATURAL RESOURCES - 2, TECHNO-ECONOMIC SURVEYS - 2, EDITING - 8.

425

DR MOHD RAIS; (B. JANUARY 1, 1963),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC.(HONS) AGRICULTURE - G.B. PANT UNIV OF AGRI & TECH '83; M.SC. AGRICULTURAL ECONOMICS - G.B. PANT UNIV OF AGRI & TECH '85; PH.D. ECONOMICS - I.I.T. KANPUR '91.

SPECIALIZATIONS : AGRICULTURAL ECONOMICS; NATURAL RESOURCE ECONOMICS; INDUSTRIAL ECONOMICS.

EXPERIENCE : SRF, IIT, KANPUR, 1991-91; RA, IIM, AHMEDABAD, 1991-92; SCIENTIST B, NISTADS SINCE FEBRUARY, 1992.

PRESENT ACTIVITIES : NATURAL RESOURCE PLANNING.

LANGUAGES : URDU, ENGLISH, HINDI.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, TECH. REPORTS - 1, ARTICLE - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : APPLIED RESEARCH - 2.

426

MRS S RAJESHWARI; (B. SEPTEMBER 10, 1962),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

427

MRS G D SANDHYA; (B. JUNE 26, 1959),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - DELHI '78; M.SC. CHEMISTRY - JODHPUR '81.

SPECIALIZATIONS : INORGANIC CHEMISTRY; SCIENCE POLICY.

EXPERIENCE : J.R.F. AND S.R.F, NISTADS, 1982-87; SCIENTIST B, NISTADS SINCE APRIL, 1987.

PRESENT ACTIVITIES : SCIENCE POLICY STUDIES.

LANGUAGES : HINDI, URDU, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 10, TECH. REPORTS - 1, ARTICLES - 1.

PROFESSIONAL EXPERIENCE(IN YEARS) : TECHNOLOGY TRANSFER - 5, SCIENCE POLICY STUDIES - 5, R & D EVALUATION - 3.

428

DR RAM SAMAR SINGH; (B. FEBRUARY 08, 1953),

SCIENTIST B, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC. - B.H.U. '74; M.A. MUSEOLOGY - B.H.U. '80; PH.D. MUSEOLOGY - B.H.U. '89.

SPECIALIZATIONS : MUSEOLOGICAL STUDIES; CONSERVATION OF PAPER MANUSCRIPTS; ANTIQUITY CONSERVATION.

EXPERIENCE : PART-TIME TEACHER, B.H.U., 1975-91; SCIENTIST B, NISTADS SINCE OCTOBER, 1991.

PRESENT ACTIVITIES : ARCHIVES MANAGEMENT.

LANGUAGES : BHOJPURI, HINDI, ENGLISH.

PUBLICATIONS & PATENTS : RES. PAPERS - 5, ARTICLES - 5.

PROFESSIONAL EXPERIENCE(IN YEARS) : BASIC RESEARCH - 8, TEACHING - 7 1/2, DOCUMENTATION - 1.

429

SHRI K R TANEJA; (B. JANUARY 23, 1943),

SCIENTIST A, NATIONAL INSTITUTE OF SCIENCE, TECHNOLOGY AND DEVELOPMENT STUDIES, NEW DELHI.

QUALIFICATIONS : B.SC - PANJAB '64; ADVANCED DIPLOMA IN RUSSIAN - DELHI '70; CERTIFICATE COURSE IN FRENCH - SCHOOL OF FOREIGN LANGUAGES, NEW DELHI '71.

SPECIALIZATIONS : INFORMATION SCIENCE; INFORMATION DISSEMINATION.

EXPERIENCE : SENIOR OBSERVER, INDIAN METEOROLOGICAL DEPT., 1965-75; J.T.A. AND S.T.A., C.S.I.R., 1975-85; SCIENTIST A, NISTADS SINCE NOVEMBER, 1985.

PRESENT ACTIVITIES : DISSEMINATION OF RESEARCH INFORMATION.

LANGUAGES : HINDI, ENGLISH, RUSSIAN, FRENCH.

PROFESSIONAL EXPERIENCE(IN YEARS) : DISSEMINATION OF RES. INFORMATION - 7.

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AGADI VIKRAM V	SCIENTIST C	188
AGARWAL OM PRAKASH	SCIENTIST EII	10
AGARWAL VINOD KUMAR	SCIENTIST EI	166
AGGARWAL A M	TECHNICAL OFFICER (A)	250
AGGARWAL B S	SCIENTIST C	189
AHLUWALIA J K	DOCUMENTATION OFFICER (EII)	285
AHMAD NASEER	SCIENTIST C	56
AHUJA D D	EXECUTIVE ARCHITECT (C)	57
AHUJA I M L	SCIENTIST CI	58
AKHTAR MOHAMMAD ASIF	TECHNICAL OFFICER (A)	251
ANAND ARUN KUMAR	TECHNICAL OFFICER (A)	252
ANAND C M	DOCUMENTATION OFFICER (EI)	296
ANAND K L	ASSISTANT EXECUTIVE ENGINEER (B)	99
ANAND LATIKA	SCIENTIST B	344
ANAND R L	DOCUMENTATION OFFICER (C)	314
ANSARI A M	TRANSLATION OFFICER (EI)	297
ANTHONY M	ASSISTANT EXECUTIVE ENGINEER (B)	100
ARORA A M	DOCUMENTATION OFFICER (EI)	298
ARORA KAMLESH	DOCUMENTATION OFFICER (C)	315
ARORA RAMESH	DOCUMENTATION OFFICER (B)	345
ARORA RENU	DOCUMENTATION OFFICER (C)	316
ARORA S M	TECHNICAL OFFICER (B)	101
ARORA SUDHIR KUMAR	DOCUMENTATION OFFICER (C)	317
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BAIG ATAULLA	PHOTOGRAPHIC OFFICER (A)	362
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BHATT POONAM	SCIENTIST C	192
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BOSE ALOKE K	SCIENTIST C	62
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BRAT CHETNA	SCIENTIST B	103
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CHAKRABARTI A	SCIENTIST B	105
CHAKRAVARTHY RADHA	SCIENTIST C	400
CHAKRAVARTY SUBHRA	SCIENTIST EII	13
CHAKRE O J	SCIENTIST C	193
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CHAND PHOOL	TECHNICAL OFFICER (A)	255
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DAS PUSHKAR	TECHNICAL OFFICER (A)	258
DAS S R	SCIENTIST CI	64
DASGUPTA M K	ART OFFICER (EI)	304
DATTA SUBRATA	TRANSLATION OFFICER (C)	321
DEEN MATA	SCIENTIST C	65
DEWAN ASHOK KUMAR	TECHNICAL OFFICER (B)	108
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MATHIARU B K	TECHNICAL OFFICER (B)	124
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MATHUR LALIT MOHAN	SCIENTIST EI	177
MATHUR RAJIV	SCIENTIST C	205
MATHUR S S	ASSISTANT EXECUTIVE ENGINEER (B)	125
MEENAKSHI	SCIENTIST C	206
MEHRA KAMAL	TECHNICAL OFFICER (A)	267
MEHRA KAVITA	SCIENTIST B	421
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MEHTA SNEH PRABHA	SCIENTIST EI	178
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MISRA NISHA	SCIENTIST EI	390
MITTAL O P	TECHNICAL OFFICER (A)	269
MITTAL REKHA	SCIENTIST B	354
MOHAN JAG	TECHNICAL OFFICER (A)	270
MOHAN S	SCIENTIST EII	377
MOKHADE A S	SCIENTIST B	422
MONGA VIJAY KUMAR	EXECUTIVE ARCHITECT (C)	79
MRINALINI N	SCIENTIST C	408
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MUKHOPADHYAY A K	SCIENTIST EI	391
MULCHANDANI C T	ASSISTANT EXECUTIVE ENGINEER (B)	126
MURTHY N C	SCIENTIST EII	18
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NAG S K	SCIENTIST F	155
NAGAR B R	DOCUMENTATION OFFICER (C)	331
NAGARAJ S R	ASSISTANT EXECUTIVE ENGINEER (B)	127
NAGPAL KUL BHUSHAN	TECHNICAL OFFICER (C)	208
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NAGPAL T D	SCIENTIST EI	39
NAIR R K M	SCIENTIST C	409
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PAL RADHABALLABH	DOCUMENTATION OFFICER (B)	356
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PARASHAR NAKUL	SCIENTIST B	238
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PATHAK T P	SCIENTIST EII	160
PATIL SIDDAPPA	SCIENTIST EII	19
PAUL B K	SCIENTIST EII	20
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PETER K M	DOCUMENTATION OFFICER (C)	333
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PILLAI SUNDARESAN J	SCIENTIST B	239
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RAHMAN M	SCIENTIST EI	394
RAI BALWANT	ASSISTANT EXECUTIVE ENGINEER (B)	130
RAI LALLAN P	SCIENTIST B	424
RAINA DHREV	SCIENTIST C	410
RAIS MOHD	SCIENTIST B	425
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RAM KHUBI	TECHNICAL OFFICER (A)	272
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SHAILENDER SHANKER	SCIENTIST B	359
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SHARMA M L	SCIENTIST EI	183
SHARMA NEERU	TECHNICAL OFFICER (A)	274
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